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Result
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Maximum DB seq
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ABR82321
ADT08174
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Human CDT peptide fragment

#1.

25-MAR-2004 (first entry)

ADG46075;

ADG46075 standard; peptide;

17 Ą

45	44	43	42	41	40	39	38	37	36	<b>3</b> 5	34	<u>3</u> 3	32	31	30	29	28	27	26	25	24
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## ALIGNMENTS

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This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences VVARSMGKEDLIWELL, TTEDSIAKINNGRADMSLDGGF, SKLSMGSGIANLSEN a YEKYLGEBYVKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention. The antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for
                                                                                                                                                                                                                                             New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating need for immobilization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antibody; carbohydrate-deficient transferrin; CDT;
non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human.
                                                                                                                                                                                                             Claim 4; SEQ ID NO 1; 21pp; German.
                                                                                                                                                                                                                                                                                                                 WPI; 2004-073743/08.
                                                                                                                                                                                                                                                                                                                                                  Althaus
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RESULT 2
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12-AUG-2004
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1 Similarity 100.0%;
17; Conservative 0;
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2002US-0410946P
2002US-041094P
2002US-041094P
2002US-0410949P
2002US-0410949P
2002US-0410959P
2002US-0410959P
2002US-0410959P
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2002US-0410961P.
2002US-0410962P.
2002US-0411019P.
2002US-0411022P.
2002US-0411023P.
2002US-0411024P.
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2002US-0406655P.
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2002US-0406642P.
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2002US-0406616P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 86; DB 8; I
Pred. No. 3.4e-07;
; Mismatches 0;
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18.APR-2003;
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02.MAY-2003;
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02.MAY-2003;
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19.MAY-2003;
19.MAY-2003;
22.MAY-2003;
22.MAY-2003;
22.MAY-2003;
09.JUN-2003;
09.JUN-2003;
09.JUL-2003;
09.JUL-2003;
09.JUL-2003;
11.JUL-2003;
08.JUL-2003;
11.JUL-2003;
                                                                                                                                                                           The present invention relates to an isolated nucleic acid molecule encoding a polypeptide which is believed to be cytostatic, antiinflammatory, immunosuppressive, antibacterial and virucidal. The composition and methods are useful for diagnosing, preventing and treating diseases such as proliferative (e.g. cancer), inflammatory, immune, metabolic, genetic, bacterial and viral diseases. The present sequence represents a human secreted protein. The present sequence is available on WIPOWEB and is not in the specification.
                                                                                                                                  Revised record corrected
                                                                                                                                                                                                                                                                                                                                                      New nucleic acid molecule for diagnosing, preventing or treating diseases such as proliferative (e.g. cancer), inflammatory, immune, metabolic, genetic, bacterial and viral diseases.
                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                        Claim 1; SEQ ID NO 2377; 428pp; English.
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Pierce K, Wa
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VVARSMGGKEDLIWELL 17
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RF, Huang MM, Kotl
Wang Y, Wong JGP,
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llarity 100.0%;
Conservative 0
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2003US-0463708P
2003US-0463716P
2003US-046719P
2003US-0467201P
2003US-0467203P
2003US-0477203P
2003US-0471306P
2003US-0471336P
2003US-0472430P
2003US-0472430P
2003US-047669P
2003US-047669P
2003US-0485218P
2003US-0485218P
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VVARSMGGKEDLIWELL 140

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New fusion protein comprising a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region, useful furgering a composition for treating e.g., septic shock, neoplasm or
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30-NUV-2001; 2001US-0334059P.
30-AUG-2002; 2002US-00231494.
30-AUG-2002; 2002US-0406977P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention.
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                                                                                                                                                                                                                                                                                         l Similarity
17; Conserv
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                                                                                                                                                                                                        VVARSMGGKEDLIWELL
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                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                  100.0%; Score
100.0%; Pred.
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hes 0;
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                                                                                                                                                                                                                                                                                                                                                Length 220;
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for

ADL70790 standard; protein; 371 AA

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Considers or diseases of endocrine system, nervous system, immune system, crespiratory system, cardiovascular system, diseases and/or disorders crelating to cell proliferation, and/or diseases or disorders relating to blood. The modified fusion proteins are useful in diagnosis, prognosis, comprevention and/or treatment of autoimmune disorders; diseases and disorders of haematopoletic cells (e.g., leukopenia, neutropenia, anaemia canaphylaxis, IgE-mediated allergic reactions such as allergic asthma, comphylaxis, igE-mediated allergic reactions such as allergic asthma, rhinitis and ezema; inflammatory conditions e.g., inflammation associated with comphylaxis, Crohn's disease, multiple sclerosis, respiratory disorders (asthma and allergy), gastrointestinal disorders (inflammatory bowel disorders such as allergic reactions such as asthma, rhinitis and ezema; intlammatory conditions e.g., inflammation associated with comphritis, Crohn's disease, multiple sclerosis, respiratory disorders (disease), cancers (e.g., gastric, ovarian, lung, bladder), CNS disorders (multiple sclerosis, stroke, traumatic brain injury, neurodegenerative contifungal immune responses, antiparasitic immune responses, etc. The cundetermined significance (MGUS), Waldenstrom's disease, plasmacytomas, adult respiratory distress syndrome, for stimulating wound repair, for preventing or treating infections of joints, bones, skin, etc. The fusion protein is also useful for treating or preventing thrombosis, myocardial infarction, cancers, thrombosytopenia, sickle cell anaemia, catherosis, etc. In an example from the invention, a system of catheroscolerosis, etc. In an example from the invention, a system of for incorporated into the pIII protein and the insertion of random peptides incorporated into the pIII protein and the insertion of random peptides
            The present invention relates to a library (I) of modified fusion proteins of transferrin (Tf) and therapeutic proteins with increased serum half-life or serum stability. Preferred fusion proteins include those modified so that the Tf moiety exhibits no or reduced glycosylation, iron binding and/or Tf receptor binding. The transferrin fusion proteins are useful for treating, preventing or ameliorating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel library containing several fusion proteins each of which comprises first transferrin polypeptide fused to at least one second peptide, useful for screening for transferrin fusion protein having the particular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-239175/22.
N-PSDB; ADL70789.
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10-MAR-2003; 2003US-00384060
09-JUL-2003; 2003US-0485404P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunosuppressive; Haemostatic; Antiallergic; Antiasthmatic; Dermatological; Antiinflammatory; Antibacterial; Vasotropic; Neuroprotective; Cytostatic; Cerebroprotective; Vulnerary; Antiparkinsonian, Nootropic; Cardiant; Antianaemic; Antiatherosclerotic; Thrombolytic; Anticoagulant; Gastrointestinal; Respiratory; transferrin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tf; transferrin fusion protein; Tf fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transferrin N-domain protein,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Turner AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID
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Best Local S
Matches 17
The sequence represents an angiotensin converting enzyme splice variant (ACEV) polypeptide. The polypeptides of the invention include variants of granulocyte colony stimulating factor receptor, glucagon, interleukin 6, platelet-derived endothelial cell growth factor, cyclin-dependent kinase inhibitor 1C, cellular tumour antigen P53, and vasoactive intestinal polypeptide receptor 2. The polypeptides and their associated nucleic acids are useful for identification of variant sequences and detection of candidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various disorders including cardiovascular diseases such as arteriosclerosis, immune disorders such as immune complex nephritis, multiple sclerosis, immune disorders such as immune complex nephritis, multiple sclerosis, cancer, sarcoidosis, nonarcoidotic pulmonary granulomatous diseases such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  granulocyte colony stimulating factor receptor; glucagon; hypertrophy; platelet-derived endothelial cell grant factor; cardiovascular disease; cellular tumour antigen P53; cyclin-dependent kinase inhibitor 10; vasoactive intestinal polypeptide receptor 2; arteriosclerosis; cancer; myocardial infarction; coronary arterial thrombosis; renal disease; diabetic nephropathy; muscular disease; immune disorder; sarcoidosis; multiple sclerosis; immune complex nephritis; deep vein thrombosis;
                                                                                                                                                                                                                                                                           Novel alternative splicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 371
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                                                                                                                                                                                                                                              Claim 4; Fig
                                                                                                                                                                                                                                                                                                                                              N-PSDB;
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10-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Angiotensin converting enzyme (ACEV) splice variant protein #80
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200136632-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vascular disorder; asbestosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nonarcoidotic pulmonary granulomatous disease; endothelial abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                           (COMP-) COMPUGEN LTD
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DB; AAS06080.
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                                                                                                                                                                                                                                                                                                                                                                                          David A,
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                                                                                                                                                                                                                                             80; 519pp; English.
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99IL-00133455
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1e-05;
                                                                                                                                                                                                                                                                                                                                                                                             Bernstein
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RESULT 6
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Best Local
                      The invention relates to novel human metalloproteins (MEPR) and encoding polynucleotides. The human MEPR polypeptides, polynucleotides and modulators are useful for diagnosing, treating or preventing disorders associated with aberrant expression of MEPR, particularly cell proliferative disorders (e.g. arteriosclerosis, atherosclerosis, cirrhosis, hepatitis, paroxysmal nocturnal hemoglobinuria, polycythemia vera, psoriasis, primary thromobocytopenia or cancer), developmental disorders (e.g. renal tubular acidosis, anemia or mental retardation), neurological disorders (e.g. Alzheimer's disease, Parkinson's disease or epilepsy), autoimmune/inflammatory disorders (e.g. ALDS, allergies,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antianemic; antiparkinsonian; nootropic; anticonvulsant; cytostatic; antiarteriosclerotic; antiasthmatic; immunosuppressive; antithyroid; hepatotropic; dermatological; antidiabetic; nephrotropic; antigout; thyromimetic; neuroprotective; osteopathic; antiarthritic; uropathic; antiparasitic; antihelmintic; antipsoriatic; ophthalmological; virucide; antirheumatic; haemostatic; antibacterial; protozoacide; fungicide;
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18-JAN-2002; 2002US-0350701L.
19-MAR-2002; 2002US-0366659P.
10-MAY-2002; 2002US-0379907P.
  epilepsy),
asthma, au
                                                                                                                                                                                                                                                                                                                                   Claim 1; Page
                                                                                                                                                                                                                                                                                                                                                                                   allergy or anemia), hepatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                New human metalloproteins and polynucleotides, useful for diagnosing, treating or preventing autoimmune or inflammatory disorders (e.g. AIDS, allergy or anemia), multiple sclerosis, osteoarthritis, cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-598523/56.
N-PSDB; ACF35812.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human metalloprotein (MEPR) polypeptide (Id-7509328CD1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-NOV-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (INCY-) INCYTE GENOMICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       therapy; transgenic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Griffin JA,
M, Chien D,
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Yue H,
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RESULT 7
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                The invention relates to novel human metal binding proteins (MBP) and CC encoding polynucleotides. The MBPs can be expressed by standard cc recombinant methodology. The polypoptides and polynucleotides are useful cc in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of MBP, such as cell cc poliferative (e.g. cancer, atherosclerosis), neurological (e.g. AIDS, cc epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, cc epilepsy, and developmental (e.g. Hypothyroidism, Cushing's syndrome) cc disorders, or infections. These are also useful in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid compounds for effectiveness as agonist or antagonist of the polypoptides, cr in altering the expression of the target polynucleotide and compounds contractions on the target polynucleotide and compounds contractions or antagonist of the polypoptide. An contraction of the carriers where a fixed at distinct cohosical locations a solid enhancer where a fixed and compounds contracted locations on a solid enhancer where a fixed at distinct cohosical locations a solid enhancer where a fixed at distinct cohosical locations a solid enhancer where a fixed at distinct cohosical locations a solid enhancer where a fixed at distinct cohosical locations as a solid enhancer where a fixed at distinct cohosical locations as a solid enhancer where a fixed and compounds compounds and a solid enhancer where a fixed at distinct cohosical locations as a solid enhancer where a fixed at distinct cohosical locations and solid enhancers where a fixed at distinct cohosical locations and solid enhancers where a fixed at distinct cohosical locations and solid enhancers where a fixed at distinct cohosical enhancers are a solid enhancers and compounds and a solid enhancers and compounds and a solid enhancers and compounds are also enhanced and compounds and a solid enhancers and compounds are also enhanced and compounds are als
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-MAR-2004; 2004WO-US008328
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Best Local
The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorders, developmental disorders, endocrine disorder, neurological disorders, developmental disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline
                                                                                                                                                                                                                                                                                                                                                                                    Schmidt JP, Wright RJ, Bruns CM, Marjanovic MM, Shen F; Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP; Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL; Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, G; Patury S, Shi X, Suarez CJ;
                                                                                                                                                                                                                                                                       in diagnosing a condition, molecules, e.g. autoimmune
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                                                                                                                                                                                                                                                                       New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABM83778
                                                                                                                                                                                                                       Claim 27; Page; 190pp; English
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12-SEP-2002;
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Pred. No. 1.8e-05;
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I Lagace RE, Spiro PA, Stewart EF
Xu Y, Kwong M, Policky JL, Hu
Xu Y, S, Shi X, Suarez CJ;
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Best Local S
Matches 17
The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therappeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorder, developmental disorder, endocrine disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the
                                                                                                                                                                                                                                                 New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy o
                                                                                                                                                                                                          Claim
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12-SEP-2002;
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DB; ACN42435.
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l Similarity 100
17; Conservative
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The sequence represents an angiotensin converting enzyme splice variant (ACEV) polypeptide. The polypeptides of the invention include variants of granulocyte colony stimulating factor receptor, glucagon, interleukin 6, platelet-derived endothelial cell growth factor, cyclin-dependent kinase inhibitor 1C, cellular tumour antigen P53, and vasoactive intestinal polypeptide receptor 2. The polypeptides and their associated nucleic acids are useful for identification of variant sequences and detection of candidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various disorders including cardiovascular diseases such as arteriosclerosis, myocardial infarction and coronary arterial thrombosis, renal diseases such as diabetic nephropathy, muscular diseases such as hypertrophy, immune disorders such as immune complex nephritis, multiple sclerosis,

Claim 4; Fig 38; 519pp; English

Novel alternative aplicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies.

N-PSDB; AAS06038.

2001-336004/35.

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David A,

Azar I,

Khosravi R,

Bernstein

17-NOV-1999;

99IL-00132978 99IL-00133455

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                                                                                                                                                                                                                                                                                                                                                                                                                            Angiotensin converting enzyme splice variant; ACEV; interleukin 6; granulocyte colony stimulating factor receptor; glucagon; hypertrophy; platelet-derived endothelial cell growth factor; cardiovascular disease cellular tumour antigen PS3; cyclin-dependent kinase inhibitor 1C; vasoactive intestinal polypeptide receptor 2; arteriosclerosis; cancer; myocardial infarction; coronary arterial thrombosis; renal disease; myocardial infarction; coronary arterial thrombosis; renal disease; multiple sclerosis; immune complex nephritis; deep vein thrombosis; nonarcoidotic pulmonary granulomatous disease; endothelial abnormality; vascular disorder; asbestosis.
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      converting enzyme (ACEV) splice variant protein
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                                                                                                                                                    The sequence represents an angiotensin converting enzyme splice variants (ACEV) polypeptide. The polypeptides of the invention include variants of granulocyte colony stimulating factor receptor, glucagon, interleukin 6, platelet-derived endothelial cell growth factor, cyclin-dependent kinase inhibitor 1C, cellular tumour antigen P53, and vasoactive intestinal polypeptide receptor 2. The polypeptides and their associated nucleic acids are useful for identification of variant sequences and detection of candidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various the property of t
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                                  disorders including cardiovascular diseases such as arteriosclerosis, myocardial infarction and coronary arterial thrombosis, renal diseases such as hypertrophy, such as diabetic nephropathy, muscular diseases such as hypertrophy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel alternative splicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies.
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N-PSDB; AAS06037.
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99IL-00133455
    such as
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Pred. No. 1.9e-05;
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                                                                                                                                                                                                                                                                                                                                  treating a disease or disease symptom, or for delivering a therapeutic agent complexed to the ferric iron of transferrin to the inside of a cell or across the blood-brain barrier. The modified fusion protein, or a nucleic acid encoding it, can be used in the diagnosis, prognosis, prevention and/or treatment of diseases and/or disorders of the
                                                                                                                                                                                                                                     endocrine, nervous, immune, respiratory, cardiovascular, reproductive and digestive systems, diseases and/or disorders relating to the blood or to cell proliferation, inflammatory conditions, and to treat viral, fungal, bacterial or parasitic infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New fusion protein, useful in the diagnosis and treatment of diseases or disorders relating to the respiratory, cardiovascular and digestive systems, comprises a transferrin protein fused to a therapeutic protein.
                                                                                                                                                                                          Sequence 679
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2001US-0334059P.
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581. .5
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517
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "N-glycosylated"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note= "Iron binding site"
                                                                                                                   100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Iron binding site"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Hinge region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Carbonate ion binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Hinge region"
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                                                                                                                   Score 86;
Pred. No.
                                                                                               Mismatches
                                                                                   DB 6; LL.
2e-05;
0;
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                                                                                                                                       Length 679;
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                                                                                             Gaps
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RESULT 13

RESULT 14 ADK15869

AX B

ADK15869;

ADK15869 standard; protein; 679 AA.

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                                                                               Query Match
Best Local 9
                                                                 Matches
                                                                                                                                                                               This invention relates to a novel fusion protein which comprises a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region. The invention may be useful for the development of compounds with cytostatic, antibacterial, virucide, antiparasitic, immunosuppressive or antiarthritic activity. In addition, the sequences disclosed may be useful for gene therapy. The fusion protein is useful for preparing a composition for treating a disease or disease symptom in a patient for example septic shock, endotoxic shock, cachexia syndromes associated with bacterial, viral or parasitic infections, neoplasm, autoimmune disease, arthritis or adverse effects associated with treatment for preventing graft rejection. The present sequence is that of the mature human transferrin protein which is related
                                                                                                                                                                                                                                                                                                                                                                                                                                           New fusion protein comprising a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region, useful for preparing a composition for treating e.g., septic shock, neoplasm or autoimmune disease.
                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-022093/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sadeghi H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-AUG-2001; 2001US-0315745P.
30-NOV-2001; 2001US-0334059.
30-AUG-2002; 2002US-00231494.
30-AUG-2002; 2002US-0406977P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     viral infection; parasitic infection; neoplasm; autoimmune disease; arthritis; graft rejection; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antibody variable region; cytostatic; antibacterial; virucide;
antiparasitic; immunosuppressive; antiarthritic; gene therapy;
septic shock; endotoxic shock; cachexia syndrome; bacterial infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human transferrin protein mature amino acid sequence
                                                                                                                                                                    to the invention.
                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 3; 82pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB; ADH89358.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fusion protein; transferrin protein; glycosylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADH89360 standard; protein;
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                                                               l Similarity
17; Conserv
                 1 VVARSMGGKEDLIWELL 17
VVARSMGGKEDLIWELL 267
                                                                                                                                    679 AA;
                                                                 Conservative
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                                                                               100.0%; Score 86;
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                                                                                   2e-05;
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RESULT 15
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                                                                                                                                                                             Immunosuppressive; Haemostatic; Antiallergic; Antiasthmatic; Dermatological; Antiinflammator; Antibacterial; Vasotropic; Neuroprotective; Cytostatic; Cerebroprotective; Vulnerary; Antiparkinsonian; Nootropic; Cardiant; Antianaemic; Antiatherosclerotic; Thrombolytic; Anticoagulant; Gastrointestinal; Respiratory; transferrin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention comprises a fusion protein that contains a modified transferrin (Tf) protein fused to a therapeutic protein/peptide (e.g. beta-interferon - IFN, glucagone-like peptide - GLP-1, erythropoietin mimetic peptide - EMP1, T-20 and soluble toxin receptor). The fusion protein of the invention is useful for epitope tagging. The present amino acid sequence represents the mature human Tf protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-AUG-2001; 2001US-0315745P.
30-NOV-2001; 2001US-0334059P.
30-AUG-2002; 2002US-00231494.
30-AUG-2002; 2002US-0406977P.
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  11-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADL70732 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         w fusion protein comprising a modified transferrin (Tf) protein fused
a therapeutic protein or peptide, useful for epitope tagging.
                                                                                                      sapiens
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17; Conserv
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VVARSMGGKEDLIWELL

Search completed: June 13,

2006, 03:58:16

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                                                                                                                                                    CC serum half-life or serum stability. Preferred fusion proteins include
CC those modified so that the Tf moiety exhibits no or reduced
CC glycosylation, iron binding and/or Tf receptor binding. The transferrin
CC fusion proteins are useful for treating, preventing or ameliorating
CC disorders or diseases of endocrine system, nervous system, immune system,
CC relating to cell proliferation, and/or diseases and/or disorders
CC relating to cell proliferation, and/or diseases and/or disorders relating to
blood. The modified fusion proteins are useful in disgnosis, prognosis,
CC prevention and/or treatment of autoimmune disorders; diseases and
CC disorders of haematopoietic cells (e.g., leukopenia, neutropenia, anaemia
CC and thrombocytopenia); allergic reactions such as altergic asthma,
CC infection (e.g., septic shock, sepsis), ischaemia-reperfusion injury,
CC nephritis, Crohn's disease, multiple sclerosis, respiratory disorders
CC (asthma and allergy), gastric, ovarian, lung, bladder), CNS disorders
CC (disease), cancers (e.g., gastric, ovarian, lung, bladder), CNS disorders
CC (disease), cancers (e.g., gastric, ovarian, lung, bladder), CNS disorders
CC (disorders such as Parkinson's disease, Alzheimer's disease, etc. The
CC fusion protein is also useful as an adjuvant to enhance antibacterial or
CC suchma protein is also useful as an adjuvant to enhance antibacterial or
CC undetermined significance (MGUS), Waldenstrom's disease, plasmacytomas,
CC adult respiratory distress syndrome, for stimulating wound repair, for
CC preventing or treating infections, of joints, bones, skin, etc. The
CC fusion selve and selve and selve and solve and selve and sel
                                                            Matches
                                                                                   Query Match
Best Local
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10-MAR-2003;
09-JUL-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel library containing several fusion proteins each of which comprises first transferrin polypeptide fused to at least one second peptide, useful for screening for transferrin fusion protein having the particula.
                                                                                                                                                                                            glomerulonephritis, cardiac arrest, edema, pulmonary embolism atherosclerosis, etc. The present sequence is human Tf mature used to make the modified Tf fusion proteins of the invention
                                                                                                                                                    Sequence
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                                                            l Similarity
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VVARSMGGKEDLIWELL
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; 2003US-00384060.
; 2003US-0485404P.
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                                                            Conservative
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score greater than or
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length: 2000000000
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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ALIGNMENTS

## A;Molecule type: DNA A;Residues: 73-263,'E',265-328,'N',330-562 <PAR> A;Residues: 73-263,'E',265-328,'N',330-562 <PAR> A;Cross-references: UNIPARC:UPI0000174484; EMBL:M11361 A;Crian, G.S.; Korinek, B.W.; Bowman, B.H.; Yang, F. Gene 49, 167-175, 1986 A;Title: The human transferrin gene: 5' region contains conserved sequences which match A;Reference number: A29090; MUID:87192006; PMID:3106157 A;A;Cesssion: A29090 A;Cross-references: UNIPROT:P02787; UNIPARC:UPI000002F089; EMBL:M12530; NID:g339452; PID: A;Note: the authors translated the codon CAA for residue 203 as Glu R;MacGillivray, R.T.A.; Mendez, E.; Shewale, J.G.; Sinha, S.K.; Lineback-Zins, J.; Brew, J. Biol. Chem. 258, 3543-3553, 1983 A;Title: The primary structure of human serum transferrin. The structures of seven cyanog A;Reference number: A92417; MUID:83160878; PMID:6833213 A;Accession: A92417 C;Species: Homo sapiens (man) C;Date: 15-Oct-1982 #sequence revision 30-Sep-1993 #text change 09-Jul-2004 C;Date: 15-Oct-1982 #sequence revision 30-Sep-1993 #text change 09-Jul-2004 C;Accession: A20981, A92417; Ā94044; A29090; A2739; I51959; I63133; I54011; I68160; A03: R;Yang, F; Lum, J.B.; McGill, J.R.; Moore, C.M.; Naylor, S.L.; van Bragt, P.H.; Baldwin Proc. Natl. Acad. Sci. U.S.A. 81, 2752-2755, 1984 A;Title: Human transferrin: cDNA characterization and chromosomal localization. A;Reference number: A20981; MUID:84194084; PMID:6585826 A;Concents: variant C A;Molecule type: protein A;Residues: 20-263,'E',265-328,'N',330-379,'SD',382-435,'D',437-557,'T',559-560,'P',562-A;Cross-references: UNIPARC:UPI0000174483 R;Park, I.; Schaeffer, E.; Sidoli, A.; Baralle, F.E.; Cohen, G.N.; Zakin, M.M. Proc. Natl. Acad. Sci. U.S.A. 82, 3149-3153, 1985 A;Title: Organization of the human transferrin gene: direct evidence that it originated transferrin precursor [validated] N;Alternate names: siderophilin A; Note: the sequence shown is the predominant electrophoretic genetic variant A;Reference number: A94044; MUID:85216459; PMID:3858812 A;Residues: A; Molecule type: mRNA A; Accession: A20981 1-698 <YAN> (C or TfC)

A;Molecule type: DNA
A;Residues: 1-72;291-300 <ADR>
A;Residues: 1-72;291-300 <ADR>
A;Cross-references: UNIPARC:UPI000016B0AC; UNIPARC:UPI000016B0AD; EMBL:M15673
R;UZan, G.; Frain, M.; Park, I.; Besmond, C.; Maessen, G.; Trepat, J.S.; Zakin
Biochem. Biophys. Res. Commun. 119, 273-281, 1984
A;Title: Molecular cloning and sequence analysis of cDNA for human transferrin
A;Reference number: A32739; MUID:84153910; PMID:6322780

for human transferrin

J.S.; Zakin,

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Ka

A;Molecule type: mRNA A;Residues: 422-690, 'G',692-698 <UZA> A;Cross-references: UNIPARC:UPI000016B0AB, EMBL:M12525; NID:g339468; PIDN:AAA61142.1; PII R;MacGillivray, R.T.A.; Mendez, E.; Sinha, S.K.; Sutton, M.R.; Lineback-Zins, J.; Brew, F

A; Accession: A32739

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transferrin precursor - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 30-Sep-1993 #sequence revision 30-Sep-1993 #text change 22-Jun-1999
C;Accession: $16246; A61239; C61573; $300335; $302694; A26504; $14853
R;Banfield, D.K.; Chow, B.K.C.; Funk, W.D.; Robertson, K.A.; Umelas, T.M.; W.Biochim. Biophys. Acta 1089, 262-265, 1991
A;Title: The nucleotide sequence of rabbit liver transferrin cDNA.
A;Reference number: $16246; MUID:91274362; PMID:2054387
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A;Residues: 636-696 <RE2>
A;Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID:g339988; PIDN:AAA61233.1; PID: A;Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID:g339988; PIDN:AAA61233.1; PID: A;Schaeffer, E.; Lucero, M.A.; Jeltsch, J.M.; Py, M.C.; Levin, M.J.; Chambon, P.; Cohen, Gene 56, 109-116, 1987
Gene 56, 109-116, 1987
A;Title: Complete structure of the human transferrin gene. Comparison with analogous chi A;Reference number: I54011; MUID:88056305; PMID:3678842
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A;Introns: 15/1; 72/3; 119/1; 168/1; 212/2; 231/1; 290/3; 350/1; 401/3; 433/1; 444/1; 4:
C;Function:
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A;Molecule type: DNA
A;Residues: 564-698 <RE4>
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A;Accession: 168160
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A; Residues: 1-72 < RE3 >
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A;Title: Changes in brain gene expression shared by scrapie and Alzheimer disease.
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A;Title: A cloned gene for human transferrin.
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A;Title: The complete amino acid sequence of human serum transferrin.
A;Reference number: A93911; MUID:82222166; PMID:6953407
A;Contents: annotation; disulfide bonds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Cross-references: GDB:120432; OMIM:190000
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;28-67,38-58,137-213,156-350,177-193,180-196,190-198,246-260,358-615,364-396,374-387,42
;432,630/Binding site: carbohydrate (Asn) (covalent) #status experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;20-698/Product: transferrin #status experimental <MAT>;20-350/Domain: transferrin repeat homology <TRH1>
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llarity 100.0%;
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ches 0;
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A; Cross-references: UNIPARC: UPI00001744AA
C; Superfamily: transferrin; transferrin repeat homology
C; Superfamily: transferrin; transferrin repeat homology
C; Keywords: duplication; glycoprotein; iron transport; metal binding; plasma
F;1-18/Domain: signal sequence #status predicted <SIG>
F;19-694/Product: transferrin #status experimental <MAT>
F;19-349/Domain: transferrin repeat homology <TRH1>
F;355-682/Domain: transferrin repeat homology <TRH2>
F;27-66,37-57,136-212,155-349,176-192,179-195,189-197,245-259,357-611,363-395,373-386,
F;508/Binding site: carbohydrate (Asn) (covalent) #status experimental
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A; Residues: 482-515,'V',517-544 <EVA>
A; Residues: 482-515,'V',517-544 <EVA>
A; Note: 516-Ile was also found
A; Note: 516-Ile was also found
R; Heaphy, S.; Williams, J.
Biochem. J. 205, 611-617, 1982
A; Title: The preparation and partial characterization of
A; Reference number: A26504; MUID:83074540; PMID:6816218
R;Roush, E.D.; Fierke, C.A.
Biochemistry 31, 12536-12542, 1992
A;Title: Purification and characterization of a carbonic anhydrase A;Reference number: 147228; MUID:93099129; PMID:1463741
A;Accession: 147228
                                                                                                                                                                carbonic anhydrase II inhibitor (transferrin homolog) precursor - pig C;Species: Sus scrofa domestica (domestic pig) C;Date: 21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change 09-Jul-2004 C;Accession: I47228
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A;Molecule type: protein
A;Residues: 19-24,'N',26
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A;Title: Evidence for a single glycan moiety in rabbit serum transferrin A;Reference number: S02694; MUID:89005676; PMID:3169252
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A; Residues: 19-45, 'S', '47-48, 'Y', 50 <GOD>
A; Cross-references: UNIPARC: UPI00001744A8
R; Evans, R. W.; Altken, A.; Patel, K.J.
FEBS Lett. 238, 39-42, 1988
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Biol. Chem. Hoppe-Seyler 369, 93-96, 1988

A;Title: Isolation, characterization and N-terminal amino-acid sequence of rabbit transfe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: protein
A; Residues: 19-26, 'X', 28-36, 'X', 38-53 < CHU>
A; Cross-references: UNIPARC: UPI00001744A7
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Int. J. Biochem. 23, 609-616, 1991
A;Title: Purification of transferrins and lactoferrin using
A;Reference number: A61573; MUID:91293379; PMID:2065820
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 VVARSMGGKEDLIWELL 17
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88.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                               285
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Pred. No. 0.00012;
1; Mismatches 1
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A;Status: preliminary; t
A;Molecule type: mRNA
A;Residues: 1-704 <ROUS
A;Cross-references: UNIP
C;Genetics:
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A;Title: Molecular cloning and sequence analysis of bovine lactotransferrin. A;Reference number: S14110; MUID:91160550; PMID:2001696
                                                                                                                            A; Molecule type: mRNA
A; Residues: 1-65, 'PG', 68-296, 'S', 298-339, 'A', 341-708 <GOO>
A; Cross-references: UNIPARC: UPI0000174495; GB:M63502
A; Note: the authors translated the codon CCG for residue 6
R; Mead, P.E.; Tweedie, J.W.
Nucleic Acids Res. 18, 7167, 1990
A; Title: CDNA and protein sequence of bovine lactoferrin.
A; Reference number: $13097; MUID:91088328; PMID:2263492
                                                                                                                                                                                                                                                                                                                                                                            Biochem. Biophys. Res. Commun. 180, 75-84, 1991
A;Title: Bovine lactoferrin mRNA: sequence, analysis, and
A;Reference number: JT0595; MUID:92028986; PMID:1718281
                          A; Molecule type: mRNA
A; Residues: 28-33, 'DS', 36-38, 'P', 40-708 <MF
A; Cross-references: UNIPARC: UPI0000174496;
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A;Residues: 20-35;82-114;148-163,'PP',166-178,'V','P';183-190;205-212;230-239;304-339;5:
A;Cross-references: UNIPARC:UPI000017448C; UNIPARC:UPI000017448D; UNIPARC:UPI000017448E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: mRNA
A;Residues: 3-144,'V',146-339,'A',341-438,'Y',440-513,'R',515-708
A;Cross-references: UNIPARC:UPI000017448B; EMBL:X57084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         submitted to the EMBL Data Library, A;Reference number: S14674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: UNIPROT:P24627; R;Pierce, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Accession: I45919
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-708 <TSA>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Species: Bos primigenius taurus (cattle)
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997 #text_change 09-Jul-2004
C;Accession: 145910; S14674; S14110; S18517; JT0595; S13097; S18518; S13881;
R;Tsang, T.C.; Burns, D.K.; Wang, F.; Pan, Y.
FASEB J. 6, 233, 1991
A;Title: Cloning of a 80-kD advanced glycosylation end product (AGE) binding
A;Reference number: 145919
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Best Local (
                                                                                                  Accession: S13097
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                            EMBL: X54801
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                                                                              C;Accession: JC2323
R;Le Provost, F.; Nocart, M.; Guerin, G.; Martin, P. Biochem. Biophys. Res. Commun. 203, 1324-1332, 1994
A;Title: Characterization of the goat lactoferrin cDNA: A;Reference number: JC2323; MUID:94380047; PMID:8093048
A;Accession: JC2323
                            A; Molecule type: mRNA
A; Residues: 1-708 < LEP >
A;Cross-references: UNIPARC:UPI0000177C50
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A;Molecule type: protein
A;Molecule type: protein
A;Molecule type: protein
A;Residues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Residues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Residues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Residues: control type: c
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F;35-696/Domain: transferrin repeat homology <TRH2>
F;35-696/Domain: transferrin repeat homology <TRH2>
F;28-64,134-217,176-192,179-200,189-202,250-264,367-399,377-390,424-703,444-666,476-551,
F;38-55/Disulfide bonds: #status predicted
F;39,111,212,72/Binding site: iron (Asp. Tyr. Tyr. His) #status experimental
F;140/Binding site: carbonate (Arg) #status experimental
F;252,300,387,495,564/Binding site: iron (Asp. Tyr. Tyr. His) #status experimental
F;414,452,545,614/Binding site: iron (Asp. Tyr. Tyr. His) #status experimental
F;482/Binding site: carbonate (Arg) #status experimental
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A;Cross-references: UNIPARC:UPI00000475A8
R;Shimazaki, K.; Tanaka, T.; Kon, H.; Oota, K.; Kawaguchi,
J. Dairy Sci. 76, 946-955, 1993
A;Title: Separation and characterization of the C-terminal
A;Reference number: A56659; MUID:93253156; PMID:8486845
A;Accession: A56659
C;Species: Capra aegagrus hircus (domestic goat)
C;Date: 20-Feb-1995  #sequence_revision 20-Feb-1995  #text_change 07-May-1999
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A;Title: Identification of the bactericidal domain of lactoferrin.
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A; Residues: 20-27, 'X', 29-37, 'X', 39-54, 'X', 56-59 <REJ>
A; Cross-references: UNIPARC: UPI00001744A0
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Comp. Biochem. Physiol. B 93, 929-934, 1899
A;Title: Purification and characterization of bovine lactoferrin
A;Reference number: PL0148; MUID:90031466; PMID:2805645
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A;Residues: 28-38,'P',40-86,'C',88-708 <ME3>
A;Cross-references: UNIPARC:UPI000017449F; EMBL:X54801
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A;Cross-references: UNIPARC:UPI0000174493; UNIPARC:UPI0000174497; UNIPARC:UPI0000174498;
49D; UNIPARC:UPI000017449E
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                                                                                                                      lactoferrin - goat
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Pred. No.
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assignment

of the

relevant locus

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R; Carpenter, N.A.; Broad, T.E.

Biochim. Biophys. Acta 1173, 230-232, 1993

A; Title: The cDNA sequence of horse transferrin.

A; Reference number: $33761; MUID:93277958; PMID:8504171

A; Accession: $33761

A; Accession: $33761

A; Molecule type: mRNA

A; Residues: 1-706 < CAR>
A; Carperimental source: liver; developmental stage adult

A; Cross-references: UNIPROT:P27425; UNIPARC:UPI0000137370; EMBL:M69020; NID:g164242; PIE

A; Cross-references: UNIPROT:P27425; UNIPARC:UPI0000137370; EMBL:M69020; NID:g164242; PIE

A; Cross-references: UNIPARC:UPI00001742, A.

Biochim. Biophys. Acta 1010, 28-34, 1999

A; Title: A growth-promoting factor for human myeloid leukemia cells from horse serum ide

A; Reference number: $02145; MUID:89076897; PMID:2909248

A; Cross-references: UNIPARC:UPI0000177C56

C; Complex: monomer

C; Superfamily: transferrin; transferrin repeat homology

C; Keywords: duplication; glycoprotein; iron transport; metal binding; plasma

F; 1-19/Domain: transferrin #status experimental AMT>

F; 26-64, 36-55, 134-215, 174-190, 177-198, 187-200, 248-262, 360-623, 366-398, 376-389, 423-701, 44

F; 26-64, 36-55, 134-215, 174-190, 177-198, 187-200, 248-262, 360-623, 366-398, 376-389, 423-701, 44
                                                                                                                                                                                                                                                          C:Species: Rattus norvegicus (Norway rat)
C;Date: 16-Feb-1995 #sequence evision 12-May-1995 #text change 09-Jul-2004
C;Date: 16-Feb-1995 #sequence evision 12-May-1995 #text change 09-Jul-2004
C;Accession: S49163; S54980; A30014; A14679; A53289; A30512; I52203
C;Escriva, H.; Pierce, A.; Coddeville, B.; Gonzalez, F.; Benaissa, M.; Lege submitted to the EMBL Data Library, January 1994
   R;Escriva,
Biochem. J.
                                                                                                                                                                                                          A;Description: Rat mammary gland A;Reference number: S49163
                                                                                                                                                                                                                                                                                                                                                                                                           transferrin precursor - rat N; Alternate names: lung-derived growth factor; siderophilin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N;Alternate names: growth-promoting factor C;Species: Equus caballus (domestic horse) C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 C;Accession: S33761; S02145 R;Carpenter, M.A.; Broad, T.S.
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C;Keywords: duplication; glycoprotein
F;359-696/Domain: transferrin repeat homology <TRH2>
F;252,300,387,495,564/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                            A; Accession: S49163
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                                                                                       A; Molecule type: mRNA
A; Residues: 1-695 <ESC>
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Best Local S
Matches 14
;Cross-references: UNIPROT:P12346; UNIPROT:Q63602; UNIPARC:UPI0000167A8B; EMBL:X77158;
;Escriva, H.; Pierce, A.; Coddeville, B.; Gonzalez, F.; Benaissa, M.; Leger, D.; Wieru
iochem. J. 307, 47-55, 1995
                                                                                                                                             Status: preliminary
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82.4%;
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Pred. No. 0.002;
l; Mismatches
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C;Superiamily: .....---
C;Keywords: duplication
F;20-348/Domain: transferrin repeat homology <TRH1>
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R;Cavanaugh, P.G.; Nicolson, G.L.
J. Cell. Biochem. 47, 261-271, 1991
A;Title: Lung-derived growth factor that stimulates the growth A;Reference number: A53289; MUID:92165927; PMID:1791188
A;Accession: A53289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Aldred, A.R.; Howlett, G.J.; Schreiber, G.
Biochem. Biophys. Res. Commun. 122, 960-965, 1984
A;Title: Synthesis of rat transferrin in Escherichia coli containing a recombinant bacter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: protein
A;Residues: 20-30;639-643,'KD',646,'LKACD' <PUR>
A;Cross-references: UNIPARC:UPI0000177C52; UNIPARC:UPI0000177C53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Experimental source: lung
A;Note: sequence modified after extraction from NCBI backbone
A;Note: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
A;Note: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
R;Purves, L.R.; Purves, M.; Linton, N.; Brandt, W.; Johnson, G.; Jacobs, P.
Biochim. Biophys. Acta 966, 318-327, 1998
A;Title: Properties of the transferrin associated with rat intestinal mucosa.
A;Reference number: A30512; MUID:88327006; PMID:3046665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: protein
A;Residues: 89,'Y',91'A',93-99,'V',101-102;'N',233,'AN',236-243;401-406,'N',408 <CAV>
A;Cross-references: UNIPARC:UPI00000E6F28; UNIPARC:UPI00000E76D0; UNIPARC:UPI00000E7E7F
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A; Residues: 518-687, D; 689-692, 'TA', 695 < HUG>
A; Cross-references: UNIPARC: UPI0000170B4C; GB: M27966; NID: g207439; PIDN: AAA42267.1; PID: g
R; Schreiber, G.; Dryburgh, H.; Millership, A.; Matsuda, Y.; Inglis, A.; Phillips, J.; Edv
J. Biol. Chem. 254, 12013-12019, 1979
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A;Tille: Transferrin messenger ribonucleic acid: molecular cloning and hormonal regulatic A;Reference number: A30014; MUID:87053639; PMID:3023031
                                                                    á
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A;Residues: 7-25,'X',27-56,'A',58-64,267-295 <RES>
A;Cross-references: UNIPARC:UPI00000E5C48; GB:M26113; NID:g207437; PIDN:AAA42266.1; PID:
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A;Reference number: S54980; MUID:95234054; PMID:7717992
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                                                                                                                                                 Matches
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       270
                                                                            1 VVARSMGGKEDLIWELL 17
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                                                                                                                                                 Conservative
                                                                                                                                                                                    76.7%;
76.5%;
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                                                                                                                                                                                    Score 66; DB 2; Length 695; 
Fred. No. 0.0043;
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N;Alternate names: lactoferrin
C;Species: Homo sapiens (man)
C;Date: 31-Mar-1992 #sequence\_

#sequence\_revision

21-Nov-1997 #text\_change 08-Dec-2000

lactotransferrin precursor (validated)

Tue

Jun

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A; Molecule type: mRNA
A; Residues: 436-4487, 489-711 < RAD>
A; Residues: 436-487, 47, 489-711 < RAD>
A; Residues: U36-487, 47, 489-711 < RAD>
A; Cross-references: UNIPARC:UPI000016ABE2; EMBD:M18642; NID:g186815; PIDN:AAA886655.1; P
R; Panella, T.J.; Liu, Y.; Huang, A.T.; Teng, C.T.
Cancer Res. 51, 3037-3043, 1991
Cancer Res. 51, 3037-3043, 1991
A; Title: Polymorphism and alterial methylation of the lactoferrin gene in normal leukocy
A; Reference number: A61169; MUID:91235214; PMID:1674448
A; Accession: A61169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Accession: $20841
A;Molecule type: protein
A;Residues: 20-28, 'X',30-31 <ST2>
A;Residues: 20-28, 'X',30-31 <ST2>
A;Cross references: UNIPARC:UPI0000174487
R;Rado, T.A.; Wei, X.; Benz Jr., E.J.
Blood 70, 989-993, 1987
A;Title: Isolation of lactoferrin cDNA from a human myeloid library
A;Reference number: $07160; MUID:88001031; PMID:3477300
A;Accession: $07160
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A;Molecule type: mRNA
A;Residues: 3-711 <POW>
A;Residues: 3-711 <POW>
A;Residues: 3-711 <POW>
A;Residues: 3-711 <POW>
A;Cross-references: UNIPARC:UDITO00016AC28; EMBL:X52941; NID:g34411; PIDN:CAA37116.1;
B:Stowell, K.M.; Rado, T.A.; Funk, W.D.; Tweedie, J.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-148, 'T', 150-422, 'C', 424-711 < REY>
A; Residues: 1-148, 'T', 150-422, 'C', 424-711 < REY>
A; Cross-references: UNIPARC: UPI000015C582; EMBL: X53961; NID: g34415; PIDN: CAA37914.1;
R; Teng, C.T.; Liu, Y.; Yang, N.; Walmer, D.; Panella, T.

Mol. Endocrinol. 6, 1969-1981, 1992
A; Title: Differential molecular mechanism of the estrogen action that regulates lactor A; Reference number: A45401; MUID: 93125571; PMID: 1480183
A; Accession: A45401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Stowell, K.M.; Rado, T.A.; Funk, W.D.; Tweedie, J.W. Biochem. J. 276, 349-355, 1991
A;Title: Expression of cloned human lactoferrin in baby-hamster kidney A;Reference number: S15853; MUID:91264786; PMID:2049066
A;Accession: S15853
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A,Note: sequence extracted from NCBI backbone (NCBIP:122202)
R;Powell, M.J.; Ogden, J.E.
Nucleic Acids Res. 18, 4013, 1990
A;Title: Nucleotide sequence of human lactoferrin cDNA.
A;Reference number: $10324; MUID:90326549; PMID:2374734
A;Accession: $10324
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Nucleic Acids Res. 18, 5288, 1990
A;Title: Complete nucleotide sequence of human mammary gland lactoferrin A;Reference number: S11228; MUID:90384839; PMID:2402455
                                                                                                                                                                                   A,Experimental source: normal breast tissue R;Metz-Boutigue, M.H.; Jolles, J.; Mazurier. Eur. J. Biochem. 145, 659-666, 1984
                                                                                                         A; Title: Human lactotransferrin: amino acid A; Reference number: A31000; MUID:85076667; I
                                                                                                                                                                                                                                                                                                                                       A; Molecule type: mRNA
A; Residues: 3-701, 'SWKPVN' < PAN>
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A; Residues: 20-31 <ST1>
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A; Residues: 1-15 < TEN>
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                                                                          A;Accession: A31000
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                                                                                                                                                                                                                                                                                                        Cross-references: UNIPARC:UPI000014B632
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20-140, 142-169, 171-203, 'L', 205, 'K', 207-208, 'K', 210-385, 'Q', 387-391, 'W', 393
                                          protein
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PMID:6510420
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                                                                                                                                                                                                                          J.; Schoentgen,
                                                                                                                                                structural comparisons with oth
                                                                                                                                                                                                                              F.; Legrand, D.;
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A;Note: the authors suggest transferrin from gastric mucosa R;Chung, M.C.M.; Chan, S.L.; Shimizu, S. Int. J. Biochem. 23, 609-616, 1991
A;Title: Purification of transferrins and lactoferrin using A;Reference number: A61573; MUID:91293379; PMID:2065820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:P09571; UNIPARC:UPI00001130C2; EMBL:X12386; NID:g2126; PIDA A;Note: 308-Arg was also found R;Baldwin, G.S.; Bacic, T.; Chandler, R.; Grego, B.; Pedersen, J.; Simpson, R.J.; Toh, Comp. Blochem. Physiol. B 95, 261-268, 1990
A;Title: Isolation of transferrin from porcine gastric mucosa: comparison with porcine A;Reference number: A60520; MUID:90227903; PMID:2328566
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S01384
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C;Superfamily: transferrin; transferrin repeat homology
C;Superfamily: transferrin; glycoprotein; iron binding; milk
C;Keywords: duplication; glycoprotein; iron binding; milk
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-711/Product: lactotransferrin #status experimental <MAT>
F;21-356/Domain: transferrin repeat homology <TRH1>
F;31-356/Domain: transferrin repeat homology <TRH2>
F;360-699/Domain: transferrin repeat homology <TRH2>
F;39-65,39-56,135-218,177-193,190-201,251-265,503-697,595-609/Disulfide bonds: #status
F;157,498/Binding site: carbohydrate (Asn) (covalent) #status experimental
F;368-400,378-391,425-706,447-669,479-554,513-527,524-537,647-652/Disulfide bonds: #sta
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A;Note: this is the final paper in a series
R;Houen, G.; Hoegdall, E.V.; Brakholt, V.; Norskov, L.
Eur. J. Biochem. 241, 303-308, 1996
A;Title: Lactoferrin: similarity to diamine oxidase and
A;Reference number: $74119; MUID:97054624; PMID:8898921
A;Cross-references: UNIPARC:UPI0000174486
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron transport;
F;1-696/Product: transferrin #status predicted <MAT>
F;1-335/Domain: transferrin repeat homology <TRH1>
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A; Residues: 'G',23-24, 'R',26-27, 'XX',30-32 <HOU>
A; Cross-references: UNIPARC: UPI000017448A
A; Experimental source: neutrophil granulocytes
C; Genetics:
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A;Residues: 1-8,'X',10-11,'X',13-15 <BA2>
A;Cross-references: UNIPARC:UPI0000174485
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Nucleic Acids Res. 16, 8720, 1988
A;Title: Nucleotide sequence of porcine liver transferrin.
A;Reference number: S01384; MUID:88335629; PMID:3419934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Species: Sus scrofa domestica (domestic pig)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999
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A;Residues: 1-8,'X',10-18,'XE' <CHU>
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A;Experimental source: mammary gland
A;Experimental source: mammary gland
A;Note: sequence extracted from NCBI backbone (NCBIN:111151, NCBIP:111153)
R;Lydon, J.P.; O'Malley, B.R.; Saucedo, O.; Lee, T.; Headon, D.R.; Conneely, O.M.
Biochim. Biophys. Acta 1132, 97-99, 1992
A;Title: Nucleotide and primary amino acid sequence of porcine lactoferrin.
A;Reference number: $24173; MUID:92379101; PMID:1511016
A;Accession: $24173
A;Molecule type: mRNA
A;Residues: 1-11,'W',13-50,'I',52-84,'G',86-120,'L',121-130,'I',132-282,'S',284-571,'Q',A;Residues: 1-11,'W',13-50,'I',52-84,'G',86-120,'L',121-130,'I',132-282,'S',284-571,'Q',A;Cross-references: UNIPARC:UPI00016C6E2; EMBL:M92089; NID:gl64613; PIDN:AAA31102.1; P.A;Cross-references: UNIPARC:UPI00016C6E2; EMBL:M92089; NID:gl64613; PIDN:AAA31102.1; P.C.;Csywords: duplication; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron binding; metalloprotein; milk
F;1-19/Domain: transferrin #status predicted <NAT>
F;20-703/Product: lactoferrin #status predicted <NAT>
F;20-350/Domain: transferrin repeat homology <TRH1>
                                                                                                       C.Species: Mus musculus (house mouse)
C.Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_c
C.Accession: A28438; A41205
R;Pentecost, B.T.: Teng, C.T.
J. Biol. Chem. 262, 10134-10139, 1987
A;Title: Lactotransferrin is the major estrogen inducible A,Reference number: A92596; MUID:87280033; PMID:3611056
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F;354-691/Domain: transferrin repeat homology <TRH2>
F;254-691/Domain: transferrin repeat homology <TRH2>
F;28-62,38-63,129-212,171-187,184-195,245-259,362-394,372-385,419-698,439-661,471-546,49
F;77,107,206,267/Binding site: iron (Asp. Tyr. Tyr. His) #status predicted
F;135/Binding site: carbonate (Arg) #status predicted
F;435/Binding site: carbonate (Arg) #status predicted
F;477/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;490/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                         N; Alternate names: lactotransferrin
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C;Date: 17-Feb-1994 #sequence revision 17-Feb-1994 #text_change
C;Accession: A45543; S24173
R;Alexander, L.J.; Levine, W.B.; Teng, C.T.; Beattie, C.W.
Anim. Genet. 23, 251-256, 1992
A;Title: Cloning and sequencing of the porcine lactoferrin cDNA.
A;Reference number: A45543; MUID:92367939; PMID:1503259
A;Accession: A45543
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A;Molecule type: mRNA
A;Residues: 1-703 <ALE>
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A;Cross-references: UNIPARC:UPI00001744A4; EMBL:J03298
                         A; Molecule type: mRNA
A; Residues: 3-707 < PEN>
                                                                                    A; Accession: A28438
                                                                                                                                                                                                                                                                                                                                                                   lactoferrin precursor - mouse
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Date: 17-Feb-1994 #sequence_revision 17-Feb-1994 #text_change 09-Jul-2004
Accession: A45543; S24173
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A;Molecule type: mRNA
A;Rosidues: 15-80;81-141;217-251;252-301 <CHE>
A;Cross-references: UNIPROT:Q92111; UNIPARC:UPI0000E773F; UNIPARC:UPI000016D098; UNIPARC
A;Cross-references: UNIPROT:Q92111; UNIPARC:UPI00000E773F; UNIPARC:UPI000016D098; UNIPARC
A;Coss-references: UNIPROT:Q92111; UNIPARC:UPI0000E773F; UNIPARC:UPI000016D098; UNIPARC
A;Idzerda, R.L.; Behringer, R.R.; Theisen, M.; Huggenvik, J.I.; McKnight, G.S.; Brinster,
Mol. Cell. Biol. 9, 5154-5162, 1989
A;Title: Expression from transferrin gene promoter in transgenic mice.
A;Reference number: A33482; MUID:90097932; PMID:2601714
A;Accession: A33482
                                                                                                                                                                                                                                                                                                                                                                  A;Molecule type: DNA
A;Residues: 1-14;302-311 <IDZ>
A;Residues: 1-14;302-311 <IDZ>
A;Residues: 1-14;302-311 <IDZ>
A;Cross-references: UNIPARC:UPI0000177C57; UNIPARC:UPI0000177C58; GB:M30819; GB:M30820
A;Pentecost, B.T.; Teng, C.T.
J. Biol. Chem. 262, 10134-10139, 1987
J. Biol. Chem. 262, 10134-10139, 1987
A;Title: Lactotransferrin is the major estrogen inducible protein of mouse uterine second; Reference number: A92596; MUID:87280033; PMID:3611056
A;Reference number: A92596; MUID:87280033; PMID:3611056
A;Recession: B28438
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7. Biol. Chem. 262, 17247-17250, 1987

A;Title: Transferrin mRNA level in the mouse mammary gland
A;Reference number: A28446; MUID:88086992; PMID:3693348
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C;Date: 30-Jun-1989 #sequence revision
C;Accession: A28446; A33482; B28438
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J. Biol. Chem. 266, 21880-21885, 1991
A;Title: Characterization of estrogen-responsive mouse lactoferrin promoter.
A;Reference number: A41205; MUID:92042099; PMID:1939212
A;Accession: A41205
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C;Superfamily: transferrin; transferrin repeat homology
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A; Residues: 86-216 < PEN>
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A; Residues: 1-15 <LIU>
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64.7%;
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l; Mismatches
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and

hypothetical protein PAB1598 - Pyrococcus abyssi (strain Orsay)
C;Species: Pyrococcus abyssi
C;Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 09-Jul-2004
C;Accession: A75097

RESULT

A75097

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A;Accession: G72464
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-510 <KAW>
A;Cross-references: UNIPH
                                                                                        A; Account type: DNA
A; Molecule type: DNA
A; Residues: 1-2958 <BEN>
A; Cross-references: UNIPROT: Q12150;
A; Cross-references: Strain $288C
                                                                                                                                                                                                                                  probable membrane protein YLR087c - yeast (Saccharomyces cerevisiae)
N;Alternate names: hypothetical protein L2506
C;Species: Saccharomyces cerevisiae
C;Date: 01-Aug-1995 #sequence_revision 24-May-1996 #text_change_09-Jul-2004
C;Accession: S64921; S64919
R;Benes, V; Rethmann, S.; Nentwich, U.; Schwager, C.; Ansorge, W.; Voss, H. submitted to the Protein Sequence Database, May 1996
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C;Superf
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C;Genetics:
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A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropy A;Reference number: A72450; MUID:99310339; PMID:10382966
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C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 05-Oct-2004 .
C;Accession: G72464
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A;Molecule type: DNA
A;Residues: 1-459 <KAW>
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A;Accession: A75097
A; Reference number: S64899
A; Accession: S64919
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A; Accession: S64921
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                                              submitted to the Protein Sequence Database, May 1996
                                                                       R; Pohl,
                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 15
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 Mismatches

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Pred. No. 1
                                                                                                                   UNIPARC: UPI000006B30B; EMBL: Z73259; NID: g1360456;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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Molecule type: DNA

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A;Residues: 2353-2958 <POH>
A;Cross-references: UNIPARC:UPI000017904C; EMBL:Z73259; MIPS:YLR087c
A;Experimental source: strain S288C
C;Genetics:
                                                                                                                                                                                   C;Superfamily: Saccharomyces cerevisiae probable membrane protein YLR087c
C;Keywords: transmembrane protein
F;21-37/Domain: transmembrane #status predicted <TM1>
                                                                                                                               F;1219-1235/Domain: transmembrane #status predicted F;1928-1944/Domain: transmembrane #status predicted F;2654-2670/Domain: transmembrane #status predicted
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A;Map position: 12R
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LMSRTVGGRVSLLWENL
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Search completed: June 13, 2006, 04:20:34 Job time : 18.25 secs THIS PAGE BLANK (USPTO)

## Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension .rup) that can no longer be found in the database, the permanent record with the new Archive database (UniPARC) at:

http://www.pir.uniprot.org/database/archive.shtml

If you have any questions regarding this information or your results, please contact any STIC searcher.

When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.

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Result
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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114.574 Million cell updates/sec
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1: uniprot_sprot:*
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86
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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Q9GL91_ZIPCA
Q9GL92_MESPE
Q3YAS1_MACMU
Q4RSM1_MACFA
Q9GL94_INIGE
Q9GL93_PHYCA
TRFE_BOVIN
ICA PIG
Q7TSX8 MARMO
TREL_CAMDR
Q6LC78_BOVIN
Q6LB7_BOVIN
TREL_BOVIN
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Q27tsx8
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Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Primates; Catarrhini; Homin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-FEB-2006, entry version 6. Hypothetical protein DKFZp459H0229. Name=DKFZp459H0229;
                                                                                                                                                       Bloecker H., Boecher M., Brandt P., Mewes H.W., Weil B., Osanger A., Fobo G., Han M., Wiemann S.; Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                QSR9L7; PONPY PRELIMINARY; PRT; 697 AA. QSR9L7; 21-DEC-2004, integrated into UniProtKB/TrEMBL 21-DEC-2004, sequence version 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR001156; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 1.
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"Independent adaptation to riverine habitats allowed survival of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE.
MEDLINE=20481910; PubMed=11027333; DOI=10.1073/pnas.97.21.11343;
Cassens I., Vicario S., Waddell V.G., Balchowsky H., Van Belle D
Ding W., Fan C., Mohan L., Simoes-Lopes P.C., Bastida R., Meyer J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mammalia; Eutheria;
Odontoceti; Phocoeni
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAX-2001, integrated into UniProtKB/TEMBL.
01-MAR-2001, sequence version 1.
07-FBB-2006, entry version 14.
Transferrin (Fragment).
                                                                              Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                         Copyrighted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS; PR00422; TRANSFERRIN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ancient cetacean lineages.";
Proc. Natl. Acad. Sci. U.S.A. 97:11343-11347(2000)
                                                                                                                                                                                                                                     The German cDNA Consortium;
                                                                                                                                                                                                                                                                  TISSUE=Cortex;
                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=9600;
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GO:0008199; F:ferric iron binding; IEA
GO:0006879; P:iron ion homeostasis; IEA
GO:0006826; P:iron ion transport; IEA
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        CR859370; CAH91543.1;
)5R9L7; 23-346.
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                                                                                                         see http://www.uniprot.org/terms
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Best Local
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Chambon P., Cohen G.N., Zakin M.M.;
"Complete structure of the human transferrin g
analogous chicken gene and human pseudogene.";
Gene 56:109-116(1987).
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P02787; O43890; O9NQBB; Q9UHV0;
21-UUL-1986, integrated into UniProtKB/Swiss-Prot
01-OCT-1989, sequence version 2.
07-MAR-2006, entry version 84.
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1;
PROSITE; PS00206; TRANSFERRIN 2;
PROSITE; PS00207; TRANSFERRIN 3;
                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE.

MEDLINE=88056305; PubMed=3678832; DOI=10.1016/0378-1119(87)90163-6; Schaeffer E., Lucero M.A., Jeltsch J.-M., Py M.-C., Levin M.J., Schaeffer E., Lucero M.A., Zakin M.M., Lucarfarvin Gene. Comparison with
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GG; GG:0008199; F:ferric iron binding; IEA
GG; GG:0006879; P:iron ion homeostasis; IE.
GG; GG:0006876; P:iron ion transport; IEA.
InterPro; IPRO1156; Peptidase_SGO.
PANTHER; PTHR11485; Peptidase_SGO; 1.
Pfam; PF00405; Transferrin; 2.
NUCLEOTIDE SI
Rieder M.J.,
                                                                 Beutler E., Gel
Fairbanks V.F.;
                                                                                          NUCLEOTIDE SEQUENCE, AND VARIANT ATRANSFERRINEMIA MEDLINE=20563920; PubMed=11110675;
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Williams P., Dehoff B., Dunn P., O'Neal K.L.,
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van Bragt P.H., Baldwin W.D., Bowman B.H.;
"Human transferrin: cDNA characterization
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SEQUENCE 6
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MCGillivray R.T.A., Mendez E., Sur
Lineback-Zins J., Brew K.;
"The primary structure of human s
seven cyanogen bromide fragments
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by analysis of cDNA clones from humar
Submitted (JAN-1999) to the EMBL/GenE
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Zhang C., Yu
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MEDLINE=84153910; PubMed=6322780;
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              MEDLINE=87192006;
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Schaeffer E., Cohen
 Korinek B.W.,
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Feingold E.A., Grouse L.H., Derge J.G.,
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r E., Sidoli A.,
             PubMed=3106157;
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106157; DOI=10.1016/0378-1119(86)90277-5; Bowman B.H., Yang F.;
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Moore R.J., Smith R.D.;
Moore R.J., Smith R.D.;
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hydrazide chemistry, and mass spectrometry.";
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MEDLINB=20392111; PubMed=1931525;

DOI=10.1002/1097-4547(20000815)61:44.388:.AID-JNR5>3.0.CO;2-Q;

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"Alternative splicing prevents transferrin secretion during
differentiation of a human oligodendrocyte cell line.";
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"Human transferrin (Tf): a single
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Gene 49:167-175(1986).
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Biochemistry 37:7919-7928(1998)
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Duguid J.R., Bohmont C.W., Liu N.G.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=97418135; PubMed=9272172; DOI=10.1007/s004390050533;
Namekata K., Oyama F., Imagawa M., Ihara Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE OF 564-624, AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DISULFIDE BONDS
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                                                                                                                                                                                                                                                                                                                                                                                         complete amino acid sequence of human serum . Natl. Acad. Sci. U.S.A. 79:2504-2508(1982).
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100:457-458(1997).
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                                                                                                                                                                                                               KAGE SITES ASN-432 AND ASN-630.
DOI=10.1021/pr0502065;
J., Gritsenko M.A., Camp D.G. I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OF 263-266;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sci. U.S.A.
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Brew K.;
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:he EMBL/GenBank/DDBJ
                             structural
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Best Local S
Matches 17
                                                                                                   SMR; Q53H26; 23-346.

Ensembl; ENSG0000091513; Homo sapiens.
GO; GO:0005576; C:extracellular region; IEA.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008199; P:iron ion homeostasis; IEA.
GO; GO:0006879; P:iron ion transport; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
PÉRM; PF00405; Transferrin; 2.
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X-RAY CRYSTALLOGRAPHY (2.2 ANGSTROMS) OF 22-350.
MEDLINE=98434369; PubMed=9760332; DOI=10.1021/bi9812064;
MEDLINE=98434369; PubMed=9760332; DOI=10.1021/bi9812064;
Jeffrey P.D., Bewley M.C., Macgillivray R.T.A., Mason A.B.,
Woodworth R.C., Baker E.N.;
"Ligand-induced conformational change in transferrins: crystal
"Ligand-induced conformational change in transferrins: crystal
structure of the open form of the N-terminal half-molecule of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q53H26
SMART; SM00094; TR FER; 2.

PROSITE; PS00205; TRANSFERRIN 1;
PROSITE; PS00206; TRANSFERRIN 2;
PROSITE; PS00207; TRANSFERRIN 3;
NON TER 1
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SEQUENCE 698 AA; 77080 MW; A5
                                                                                                                                                                                                                                                                              Copyrighted by the UniProt Consortium, see http://www.uniprot.org/termsDistributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                             Suzuki Y., Sugano S., Totoki Y., Toyoda A., Takeda T., S
Tanaka A., Yokoyama S.;
Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=98038986; PubMed=9373149; DOI=10.1016/S0378-1119(97)00411-3; Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Sugano S.; Scruction and characterization of a full length-enriched and a 5-end-enriched cDNA library.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Maruyama K., Sugano S.;
"Oligo-capping: a simple method to replace the eucaryotic mRNAs with oligoribonucleotides.";
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-MAY-2005, sequence version 1.
07-FEB-2006, entry version 4.
Transferrin variant (Fragment).
Homo sapiens (Human)
                                                                                           PRINTS;
                                                                                                                                                                                                                                                    EMBL; AK222755; BAD96475.1; -;
                                                                                                                                                                                                                                                                                                                                                        Suzuki Y.,
                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Liver;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                            Totoki Y., Toyoda A., Takeda T., Sakaki
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 A54775D23B9A4FFF CRC64;
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                                              Mesoplodon peruvianus (Peruvian beaked whale)
Eukaryota; Metazoa; Chordata; Craniata; Verte
Mammalia; Butheria; Laurasiatheria; Cetartiod
                                                                                                                      01-MAR-2001, integrated into UniProtKB/TrEMBL
01-MAR-2001, sequence version 1.
07-FEB-2006, entry version 14.
Transferrin (Fragment)
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PANTHER; PTHR11485; Peptidase_S60; 1.
Pfam; PF00405; Transferrin; 1.
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SMR; Q9GL91; 1-80.

GO; GO:0005576; C:extracellular region; IE;

GO; GO:0008199; F:ferric iron binding; IEA;

GO; GO:0006879; P:iron ion homeostasis; IE;

GO; GO:0006879; P:iron ion transport; IEA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ziphius cavirostris (Goose-beaked whale).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Cetacea;
Odontoceti; Ziphiidae; Ziphius.
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Odontoceti; Ziphiidae;
NCBI_TaxID=27617;
                                                                                                                                                                                                                           Q9GL92;
                                                                                                                                                                                                                                                Q9GL92_MESPE
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Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Proc. Natl. Acad. Sci. U.S.A. 97:11343-11347(2000).
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Pred. No. 6.3e-06;
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Pred. No.
                                                                          Craniata; Vertebrata; Euteleostomi;
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Q3YAS1;
Q3YAS1;
Q3YAS1;
27-SEP-2005, integrated into U
27-SEP-2005, sequence version
                                  PRINTS; F
SMART; SM
PROSITE;
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GO; GG:00081199; F:ferric iron binding; IEA.
GO; GG:0006879; P:iron ion homeostasis; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60; 1.
PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 1.
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                                                                                                                                                                  EMBL; DQ147929; AAZ80920.1; -; mRNA.
GG; GO:0005576; C:extracellular region; IEA.
GG; GO:0008199; F:ferric iron binding; IEA.
GG; GO:0006879; P:iron ion homeostasis; IEA.
GG; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase_S60.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Form deprivation modulates proliferation of cells in primate experimental myopia.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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Tkatchenko A.V., Walsh P.A.,
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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NUCLEOTIDE SEQUENCE.
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Q9GL92; 1-81.
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; PR00422; TRANSFERRIN.
SM00094; TR_FER; 1.
E; PS00206; TRANSFERRIN_2;
E; PS00207; TRANSFERRIN_3;
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d (JUL-2005) to the EMBL/GenBank/DDBJ databases
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Cercopithecinae; Macaca.
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C QARSM1;
T 19-JUL-2005, integrated into Unir.....
JT 19-JUL-2005, sequence version 1.
JT 07-FBB-2006, entry version 5.
DT 07-FBB-2006, entry version 5.
DE Brain cDNA, clone: QccE-13766, similar to human transferr of the sequence of the sequenc
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Submitted (JUN-2005) to the EMBL/GenBank/DDBJ
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PROSITE; PS00206; TRANSFERRIN_2; 2.
PROSITE; PS00207; TRANSFERRIN_3; 2.
SEQUENCE 698 AA; 77010 MW; F19A15A7C898399B CRC64;
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GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0006879; P:iron ion homeostasis; IEA.
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Distributed under the Creative Commons Attribution-NoDerivs License
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153
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nilarity 94.1%;
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                                                                                                                                       Conservative
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17082 MW;
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286
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                                                                                                                                           <u>ب</u>
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Pred. No. 1.2e-05;
1; Mismatches 0;
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                                                                                                                                                                                                                   DB 2;
                                                                                                                                                                             .3e-05;
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RESULT 10 Q9GL94 INIGE ID Q9GL94 INIGE AC Q9GL94;

PRELIMINARY;

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RESULT
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Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Cetacea; Odontoceti; Physeteridae; Physeteridae; Physeter.
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NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.

MEDLINE=20481910; PubMed=11027333; DOI=10.1073/pnas.97.21.11343;
Cassens I., Vicario S., Waddell V.G., Balchowsky H., Van Belle D.
Ding W., Fan C., Mohan L., Simoes-Lopes P.C., Bastida R., Meyer !
Stanhope M.J., Milinkovitch M.C.;
"Independent adaptation to riverine habitats allowed survival of
                                                                                     Copyrighted by the UniProt Consortium, see http://www.uniprot.org/tubistributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transferrin (Fragment). Physeter catodon (Sperm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Copyrighted by the UniProt Consortium, see http://www.uniprot.org/to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE.

MEDLINB=20481910; PubMed=11027333; DOI=10.1073/pnas.97.21.11343;
Cassens I., Vicario S., Waddell V.G., Balchowsky H., Van Belle D.,
Ding W., Fan C., Mohan L., Simoes-Lopes P.C., Bastida R., Meyer A.
Stanhope M.J., Milinkovitch M.C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Inia geoffrensis (Amazon dolphin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Cetacea;
Odontoceti; Iniidae; Inia.
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01-MAR-2001, sequence version 1.
07-FEB-2006, entry version 15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9755;
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PANTHER; PTHR11485; Peptidase_S60; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9725;
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        EMBL;
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                                                                                                                                                                                                                                                       ancient cetacean lineages.";
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GO:0008199; F:ferric iron binding; IEA.
GO:0006879; F:iron ion homeostasis; IEA.
GO:0006826; P:iron ion transport; IEA.
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P19134; 1JNF.
                                                                                                                                                                                                            Natl. Acad. Sci. U.S.A. 97:11343-11347(2000)
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                                                                                                                           by the UniProt Consortium, see http://www.uniprot.org/terms
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        AAG32044.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 80; Db 2,
Pred. No. 1.4e-05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 81;
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SEQUENCE
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01-NOV-1997, sequence versi
07-MAR-2006, entry version
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GQ; GQ:0005576; C:extracellular region; IEA
GQ; GQ:0008199; F:ferric iron binding; IEA
GQ; GQ:0006879; P:iron ion homeostasis; IE
GQ; GQ:0006886; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=96132861; PubMed=8557646; DOI=10.1074/jbc.271.2.1166; Retzer M.D., Kabani A., Button L.L., Yu R.H., Schryvers A.B.; "Production and characterization of chimeric transferring for t determination of the binding domains for bacterial transferring
  PRINTS;
                                                InterPro; IPR001156; Peptidase_S60; PANTHER; PTHR11485; Peptidase_S60; Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                   Copyrighted
Distributed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalia; Eutheria;
Pecora; Bovidae; Bo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               binding globulin).
Name=TF;
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PRINTS; PR00422; TRANSFERRIN.
PROSITE; PS00207; TRANSFERRIN_3; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HSSP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9913;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bos taurus
                                                                                                                             MEROPS; S60.971;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biol. Chem. 271:1166-1173(1996).
                                                                                                                                                                                                                                                                                                                                                                                FUNCTION: Transferring are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.

SUBCELLUAR LOCATION: Secreted protein.

SUBCELLUAR LOCATION: Sepressed by the liver and secreted in plasma. MISCELLANBOUS: The peptidase 560 domains do not have protease
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                                                                                                                                                        P09571; 1H76.
                                                                                                                                                                                   U02564; AAA96735.1; -; mRNA.
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                             TRANSFERRIN
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Laurasiatheria;
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heria; Cetartiodactyla; Ruminantia;
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Attribution-NoDerivs License
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                      TREE RABIT STANDAKU;
P19134; O46514;
01-NOV-1990, integrated into UniProtKB/Swiss-Prot.
15-JUL-1999, sequence version 4.
07-MAR-2006, entry version 61.
07-MAR-2006 entry version file (Sideroph:
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similarity);
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Pred. No.
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Oryctolagus.
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X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
Sarra R., Garratt R.C., Gorinsky B., Jhoti H., Lindley P.F.,
"High-resolution X-ray studies on rabbit serum transferrin:
"High-resolution X-ray analysis of the N-terminal half-molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biol.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bailey S., Evans R.W., Garratt R.C., (Horsburgh C., Jhoti H., Lindley P.F., "Molecular structure of serum transfer Biochemistry 27:5804-5812(1988).
                                                                                                                                                                              Distributed
                                                                                                                                                                                              Copyrighted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Evans R.W., Aitken A., Patel K.J.;
"Evidence for a single glycan moiety
location of the glycan within the pol
FEBS Lett. 238:39-42(1988).
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MEDLINE-89005676; PubMed=3169252; DOI=10.1016/0014-5793(88)80221-7;
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cta Crystallogr. B 46:763-771(1990)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -RAY CRYSTALLOGRAPHY (3.3
                                                                                                                                                                                                                                     SUBUNIT: Monomer.
SUBCELLULAR LOCATION: Secreted protein.
TISSUE SPECIFICITY: Expressed by the liver and s
MISCELLANEOUS: The peptidase S60 domains do not
function as the catalytic residues are missing.
SIMILARITY: Belongs to the transferrin family.
SIMILARITY: Contains 2 peptidase S60 domains.
                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a furth
    X58533; CAA41424.1;
AF031625; AAB94136.1;
AF031611; AAB94136.1;
AF031612; AAB94136.1;
AF031613; AAB94136.1;
AF031613; AAB94136.1;
AF031615; AAB94136.1;
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                                                                                                                                                                            UniProt Consortium, see http://www.uniprot.org/termsthe Creative Commons Attribution-NoDerivs License
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., Sarra R., Watson
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REMBL; AF031616; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031618; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031618; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031629; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031621; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031622; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031623; AAB94136.1; JOINED; Genomic_DNA.
REMBL; AF031624; AAB94136.1; JOINED; Genomic_D
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Iron 1.
Iron 2.
Iron 2.
Iron 2.
Iron 2.
Iron 2.
Carbonate 1.
Carbonate 1; via amide nitrogen.
Carbonate 1; via amide nitrogen.
Carbonate 2; via amide nitrogen.
Carbonate 3; via amide nitrogen.
Carbonate 4; via amide nitrogen.
Carbonate 5; via amide nitrogen.
Carbonate 6; via amide nitrogen.
Carbonate 6; via amide nitrogen.
Carbonate 7; via amide nitrogen.
Carbonate 6; via amide nitrogen.
Carbonate 7; via amide nitrogen.
Carbonate 1; via amide nitrogen.
Carbonate 1; via amide nitrogen.
Carbonate 2; via amide nitrogen.
Carbonate 3; via amide nitrogen.
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/FTId=PRO 0000035717.
Peptidase S60 1.
Peptidase S60 2.
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Iron 1.
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K -> S (
P -> Y (
                 y (in )
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                      Ref.
RESULT 14

ICA PIG

ID— ICA PIG

AC Q29545;

AC Q29545;

DT 15-JUL-1999, integrated into UniPr

DT 01-NOV-1996, sequence version 1.

DT 07-FEB-2006, entry version 39.

DE Inhibitor of carbonic anhydrase pr

GN Name=ICA;

OS Sus scrofa (Pig).

OC Eukaryota; Metazoa; Chordata; Cran

Mammalia; Eutheria; Laurasiatheria

OC Sus

NCBI_TaxID=9823;

RN [1]

RP NUCLEOTIDE SEQUENCE [MRNA], AND PA

MEDLINE=97254619; PubMed=9100029;

RA Wuebbens M.W., Roush E.D., Decastr
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Matches 15
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70 VVARSVDGKEDLIWELL 286
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| Similarity 88.1
| 15; Conservative
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                                                                                                                                                                   precursor
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RESULT 15
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PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 2.
PRINTS; PR00422; TRANSFERRIN.
SMART; SM00094; TR PER; 2.
PROSITE; PS00205; TRANSFERRIN 1; 2.
PROSITE; PS00206; TRANSFERRIN 2; 1.
PROSITE; PS00207; TRANSFERRIN 3; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
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-!- FUNCTION: Specifically binds and inhibits carbonic anhydrase with nanomolar affinity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; U36916; AAB58956.1; -; mRNA.
PIR; I47228; I47228.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LinkHub; Q29545;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=93099129; PubMed=1463741;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE SPECIFICITY: Plasma.
PTM: N-glycosylated.
MISCELLANEOUS: The peptidase
function as the catalytic res
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SIMILARITY: Belongs to the transferrin family SIMILARITY: Contains 2 peptidase S60 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUBUNIT: Monomer.
SUBCELLULAR LOCATION: Secreted
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                                                                                                                                         15;
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                                                                                                                                                         Similarity
                                                                   by the UniProt Consortium, see http://www.uniprot.org/terms under the Creative Commons Attribution-NoDerivs License
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                                                                                                                                         Conservative
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88.2%;
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                                                                     286
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                                                                                                                                      1.
                                                                                                                                                      Score 75;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Potential.
Inhibitor of carbonic anhydrase.
/FIId=PRO_0000035745.
Peptidase S60 1.
Peptidase S60 2.
N-linked (GlcNAc. . . .) (Potentia
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Q7TSX8;
01-OCT-2003, :
01-OCT-2003, :
01-EB-2006, :
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1; 2.
PROSITE; PS00205; TRANSFERRIN 2; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
SEQUENCE 694 AA; 76466 MW; 4005
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GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0006879; P:iron ion homeostasis; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 2.
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HSSP; P19134; 1JNF.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rinaudo J.A.S., Gerin J.L.;
Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases
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82.4%;
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Pred. No. 0.0033;
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GenCore version 5.1.9
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Result
No.
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Searched:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score
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1: /BMC Celerra SIDS:

2: /EMC Celerra SIDS:

3: /EMC Celerra SIDS:

4: /EMC Celerra SIDS:

5: /EMC Celerra SIDS:

6: /EMC Celerra SIDS:

7: /EMC Celerra SIDS:
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86
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/EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
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US-09-037-188-3
US-09-285-310-2
US-09-753-385-2
US-09-733-310-4
US-09-733-310-4
US-09-733-385-4
US-09-733-385-4
US-09-733-385-4
US-09-733-385-4
US-09-733-385-4
US-09-733-385-4
US-09-724-864-54
US-09-724-864-54
US-09-421-632-2
US-08-655-640-4
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65	65	65	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
75.6	75.6	75.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
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US-08-456-106-6	US-08-453-703-6	US-08-145-681-6	PCT-US93-03614-2	US-09-633-739-2	US-09-265-577-2	US-08-476-798-4	US-08-456-108-2	US-09-158-313-4	US-08-464-167-4	US-08-456-106-2	US-08-453-703-2	US-08-461-333-4	US-08-154-019-4	US-08-250-308-2	US-08-145-681-2	US-08-476-798-2	US-09-158-313-2	US-08-464-167-2
Sequence 6, A	Sequence 6, A	Sequence 6, A	Sequence 2, A	Sequence 2, A	Sequence 2, A	Sequence 4, A	Sequence 2, A	Sequence 4, A	Sequence 4, A	Sequence 2, A	Sequence 2, A	Sequence 4, A	Sequence 4, A	Sequence 2, A				
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ALIGNMENTS

## RESULT 1 \$262177-4 \$262177-1 \$262177-1 \$262177-1 APPLICANT: BROWN, JOSEPH P.; ESTIN, CHARLES D.; PLOWMAN, GREGORY D.; HELLSTROM, KARL E.; ROSE, TIMOTHY M.; HELLSTROM, INGEGERD; PURCHIO, ANTHONY F.; HU, SHIU-LOK; PENNATHUK, SRIDHAR TITLE OF INVENTION: RECOMBINANT VIRUSES ENCODING THE HHUMAN MELANOMA-ASSOCIATED ANTIGEN NUMBER OF SEQUENCES: 6 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/07/7230 FILING DATE: 27-JAN-1987 PRIOR APPLICATION DATA: APPLICATION NUMBER: 827,313 FILING DATE: 07-FEB-1986 ;SEQ ID NO:4: LENGTH: 696 \$262177-4 Query Match Best Local Similarity 100.0%; Score 86; DB 7; Length 696; Best Local Similarity 100.0%; Pred. No. 1.7e-06; Matches 17; Conservative 0; Mismatches 0; Gaps

COMPUTER:

IBM PC compatible

PC-DOS/MS-DOS

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TYPE: amino acids
TYPE: amino acids
TYPE: amino acid
TYPE: amino acid
TYPE: protein
US-08-175-158A-2
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NAME: DeCONTI, Giulio A.
REGISTRATION NUMBER: J,503
REFERENCE/DOCKET NUMBER: UVI-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPHONE: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2, Application US/09439740 Patent No. 6825037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 100.0%; Score 86; DB 1;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 17; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: UVI-005CP2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: PC-D
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: WOODWORTH, ROBERT C.
TITLE OF INVENTION: MOLECULES AND MUTANTS THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/832,029
FILING DATE: 06-FEB-1992
                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                              APPLICATION NUMBER: US/09/439,740 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/175,158A FILING DATE: 28-DEC-1993 CLASSIFICATION: 530
                                                                                                                  FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                   OPERATING SYSTEM: PO
SOFTWARE: ASCII text
                                                                                                                                                                                                                                                                                                           COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                ZIP: 02109
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                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       270 VVARSMGGKEDLIWELL 286
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                                                                                                                                                                                                                                                                                                                                                                                                                        Boston
                                                                                                                                                                                                                                                                                                                                                                                                    Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                          60 State Street, suite 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNK, Walter D. MacGILLIVRAY, R
                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MASON, Anne B.
                                                                                                                                                                                                                                                                                   IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                           Floppy disk
                                                                                                                                                    08/175,158
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ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/470,058

FILING DATE: 06-JUN-1995

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Granahan, Patricia

REGISTRATION NUMBER: 32,227

REGISTRATION UMBER: TKT93-01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-861-6240
                                                    Query Match
Best Local Similarity
Marches 17; Conserve
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                                                                                                                                               ; MOLECULE TYPE: protein US-08-470-058-2
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Patent No. 5817789
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%; Score 86; DB 2; Best Local Similarity 100.0%; Pred. No. 1.7e-06; Matches 17; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 698 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Lemontt, Jeffrey F.
TITLE OF INVENTION: Chimeric Proteins For Use in Transport
TITLE OF INVENTION: of a Selected Substance Into Cells
NUMBER OF SEQUENCES: 12
CORRESSES: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Heartlein, Michael W. APPLICANT: Lemontt, Jeffrey F.
                                                                                                                                                                                TYPE: amino a
STRANDEDNESS:
TOPOLOGY: unl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: Two Mil:
CITY: Lexington
STATE: MA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
646 VVARSMGGKEDLIWELL 662
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                           1 VVARSMGGKEDLIWELL 17
                                                                                                                                                                                                                      amino acid
                                                                                                                                                                                                                                      1074 amino acids
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                                                                     Conservative
                                                                                                                                                                                   unknown
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                                                                                     100.0%; Score 86; DB 1; 100.0%; Pred. No. 2.8e-06;
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                                                                       Mismatches
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RESULT 5
US-09-037-188-2
IS-09-037-188-2
; Sequence 2, Application US/09037188
; Patent No. 6027921
; GENERAL INFORMATION:

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                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 6
                                                                                                                                                                                                                                                                                                                   Sequence 2, Application US/09285310
Patent No. 6582026
GENERAL INFORMATION:
APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Fraser, Ph.D., J.D., V
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 07:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/037,188 FILING DATE: 02-MAR-1998 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                  APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                 STREET: CONTROL BOSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELLEFAX: 51
TELEFAX: 51
200154
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100.0%; Score 86;
Local Similarity 100.0%; Pred. No.
nes 17; Conservative 0; Mismatch
                                                                                                          COUNTRY: USA
ZIP: 02110-2804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM:
SOFTWARE: FastSEC
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                                                                                                                                                                                                           ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 646 VVARSMGGKEDLIWELL 662
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                                                                                                                                                                                       225 Franklin Street
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                                                                                                                                                                                                                                                                                                                                             Heartlein, Michael W.
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                                                                                                                                                                                                             Fish & Richardson P.C
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hes 0;
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US-08-470-058-4

Sequence 4, Application US/08470058
Patent No. 5817789
GENERAL INFORMATION:
APPLICANT: Heartlein, Michael W
APPLICANT: Lemontt, Jeffrey F.

Heartlein, Michael W. Lemontt, Jeffrey F.

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; ORGANISM: Homo sapiens
US-09-753-385-2
                                                                                                                                                                                                                                                          FILE REFERENCE: 10278-025004

CURRENT APPLICATION NUMBER: US/09/753,385

CURRENT FILING DATE: 2002-12-10

PRIOR APPLICATION NUMBER: US 08/470,058

PRIOR APPLICATION NUMBER: US 09/037,188

PRIOR FILING DATE: 1998-03-09

PRIOR APPLICATION NUMBER: US 09/285,310

PRIOR FILING DATE: 1999-04-02

NUMBER OF 5EQ ID NOS: 12

SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Heartlein, Michael W.
APPLICANT: Concino, Michael F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE IN TRANSPORT
TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Best Local Similarity 100.0%; Matches 17; Conservation
                                                                          Query Match 100.0%; Score 86; DB 2; Best Local Similarity 100.0%; Pred. No. 2.8e-06; Matches 17; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                             SEQ ID NO 2
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                    LENGTH: 1074
TYPE: PRT
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LENGTH: 1074 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/09/285,310 FILING DATE: PRIOR APPLICATION DATA: APPLICATION NUMBER: 09/037,188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Fraser, Ph.D., J.D., REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 07.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
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646 VVARSMGGKEDLIWELL 662
                                    1 VVARSMGGKEDLIWELL 17
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Pred. No. 2.8e-06;
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                                                                                                                 Length 1074;
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TITLE OF INVENTION: Chi TITLE OF INVENTION: of NUMBER OF SEQUENCES: 12 CORRESPONDENCE ADDRESS:

Chimeric Proteins For Use in Transport of a Selected Substance Into Cells

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; TOPOLOGY: unknown ; MOLECULE TYPE: protein US-08-470-058-4
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Best Local Similarity
                                                                                                                                                            STATE: MA
COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PISM PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,058
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FAStSEQ for Windows Version 2.0
CURRINT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,188
FILING DATE: 02-MAR-1998
                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS
TITLE OF INVENTION: IN TRANSPORT OF A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT93-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
                PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
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STRANDEDNESS: un
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ZIP: 02173
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STREET: TV
                                                                                                                                                                                                                                                                       CITY:
FILING DATE:
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Two Militia Drive
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                                                                                                                                                                      Diskette
06-JUN-1995
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100.0%; Pred. No. 3.8e-06;
Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                 FOR USE
SELECTED SUBSTANCE INTO CELLS
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; MOLECULE TYPE: protein US-09-285-310-4
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Patent No. 6262026
GENERAL INFORMATION:
APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
Query Match 100.0%; Score 86; DB 2; Best Local Similarity 100.0%; Pred. No. 3.8e-06; Matches 17; Conservative 0; Mismatches 0;
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                                                                                                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1410 amino aci
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                      NAME: Fraser, Ph.D., J.D., V
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 072
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 1410 amino aci
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                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: protein
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                                                                                                                                                                          TELEFAX: 51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 225 F
CITY: Boston
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: FILING DATE:
                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Fraser, Ph.D., J.D., CREGISTRATION NUMBER: 34,819
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GY: unknown
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225 Franklin Street
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                                                                                                    unknown
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100.0%; Pred. No. 3.8e-06;
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                                 Length 1410;
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   Indels
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982

VVARSMGGKEDLIWELL VVARSMGGKEDLIWELL

998

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APPLICANT: Heartlein, Michael W.
APPLICANT: Hemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS
FILE REFERENCE: 10278-025004
CURRENT FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: US 09/753,385
CURRENT FILING DATE: 2002-12-0
PRIOR APPLICATION NUMBER: US 09/037,186
PRIOR FILING DATE: 1998-03-09
PRIOR FILING DATE: 1998-03-09
PRIOR APPLICATION NUMBER: US 09/285,310
PRIOR FILING DATE: 1999-04-02
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; ORGANISM: Homo sapiens
US-09-753-385-4
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Best Local Similarity
Matches 17; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 4
LENGTH: 1410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/08145681 Patent No. 5571691
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 12
                                                                                    SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/145,681
                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Baker & Botts, L.L.P.
STREET: 910 Louisiana St
                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: Production of Recombinant Lac
TITLE OF INVENTION: and Lactoferrin Polypeptides
TITLE OF INVENTION: Various Organsims
                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                 STREET: 910 Lc
                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 77002
                                           FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              982 VVARSMGGKEDLIWELL 998
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McGregor, Martin L.
                                                                                                                                                                                                                                                                                                     Texas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 86; DB 2; 100.0%; Pred. No. 3.8e-06;
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                                                                                                                                     Version
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                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,703
FILING DATE: Concurrently herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/145,681
FILING DATE: October 28, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Albert P. Halluin
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8206-024
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
                                                                   INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: 108 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
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TITLE OF INVENTION: Production of Recombinant Lactoferrin
TITLE OF INVENTION: and Lactoferrin Polypeptides Using CD1
TITLE OF INVENTION: Various Organisms
NUMBER OF SEQUENCES: 14
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ORGANISM: Bos
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HYPOTHETICAL: YES
ANTI-SENSE: NO
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/229/1874
MOLECULE TYPE: protein HYPOTHETICAL: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Conneely, Orla M
APPLICANT: Headon, Denis R.
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CITY: New York
STATE: New York
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TELEFAX: 4
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                                    TOPOLOGY:
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                                            amino acid
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1155 Avenue of the Americas
                                                                     708 amino acids
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82.4%;
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Pred. No. 0.00072;
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Best Local Similarity
                                                             Matches
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Best Local Similarity
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FILING DATE: Concurrently herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,681
FILING DATE: October 28, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Albert P. Halluin
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8206-025
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APPLICANT: Connec
APPLICANT: Headon
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                                                                                                                                   ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Bos taurus
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ORGANISM: BOB
                                                                                                                                                                     MOLECULE TYPE: protein HYPOTHETICAL: YES ANTI-SENSE: NO
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: Production of Recombinant Lactoferrin
TITLE OF INVENTION: and Lactoferrin Polypeptides Using cDNA Sequences
TITLE OF INVENTION: Various Organisms
                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
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CITY: New York
STATE: New York
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274 VVARSVDGKEDLIWKLL 290
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                   1 VVARSMGGKEDLIWELL 17
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amino acid
OGY: linear
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                                                             Conservative
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                                                                          82.6%;
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                                                                          Score 71; [
Pred. No. 0.
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                                             0.00072;
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Search completed: June 13, 2006, 04:25:49 Job time: 30 secs
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                                                                                                                               Matches
                                                                                                                                                              Query Match
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                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/456,10
APPLICATION DATE: Concurrently herew.
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,681
FILING DATE: October 28, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Albert P. Halluin
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8206-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-884-3660
                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 415-854-3694
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                             HYPOTHETICAL: YE ANTI-SENSE: NO ORIGINAL SOURCE: ORGANISM: Bos
                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 708 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Produc
TITLE OF INVENTION: and La
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                                                                                                                                              Local
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                                                               274 VVARSVDGKEDLIWKLL 290
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                                                                                1 VVARSMGGKEDLIWELL 17
                                                                                                                                              Similarity
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1155 Avenue of the Americas
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                                                                                                                                                                                                              Bos taurus
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                                                                                                                                              82.6%;
82.4%;
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and Lactoferrin Polypeptides Using cDNA Sequences in
Various Organisms
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                                                                                                                                              Score 71; DB 2;
Pred. No. 0.00072;
                                                                                                                            Mismatches
                                                                                                                                                              Length 708;
                                                                                                                                 Indels
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Result
No.
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Maximum Match 100%
Listing first 45 s
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Maximum DB
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length: 2000000000
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1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep:*
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GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.
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US-10-384-060-2

US-10-311-494-2

US-10-383-201-10

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US-10-387-711-2

US-10-513-523-3

US-11-177-506-46
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US-10-429-653-4
US-10-429-659-4
US-10-429-661-4
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US-10-429-654-4
US-10-429-654-6
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US-10-384-060-3

US-10-231-494-3

US-10-429-482-4

US-10-429-497-4

US-10-429-515-4

US-10-429-598-4
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### ALIGNMENTS

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APPLICANT: Dade Behring Marburg GmbH
TITLE OF INVENTION: Carbohydrate deficient transferrin (CI
TITLE OF INVENTION: antibodies, their preparation and use
FILE REFERENCE: 2002/B001
CURRENT APPLICATION NUMBER: US/10/612,162
CURRENT FILING DATE: 2003-07-03
PRIOR APPLICATION NUMBER: 10230550.1
PRIOR FILING DATE: 2002-07-05
PRIOR FILING DATE: 2002-07-05
PRIOR APPLICATION NUMBER: 03011334.4
PRIOR FILING DATE: 2003-05-19
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin Ver. 2.1
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US-10-384-060-76
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-612-162-1
FILE REFERENCE: 54710-5004-US
CURRENT APPLICATION NUMBER: US/10/384,060
CURRENT FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-08-30
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                                                                                                                                                                                                Sequence 76, Application US/10384060
Publication No. US20030226155A1
GENERAL INFORMATION:
APPLICANT: SADEGHI, Homayoun
APPLICANT: PRIOR, Christopher P.
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN-ANTIBODY FUSION PROTEINS
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Pred. No.
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Sequence 3, Application US/10378094
Publication No. US20030221201A1
GENERAL INFORMATION:
APPLICANT: PRIOR, Christopher P.
APPLICANT: LAI, Char-Huei
APPLICANT: LAI, Char-Huei
APPLICANT: SADEGHI, Homayoun
APPLICANT: SATIO-5001-01-US
CURRENT APPLICATION NUMBER: US/10/378,094
CURRENT FILING DATE: 2003-03-04
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/335,745
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 66
SSOFTWARE: Patentin version 3.2
SEQ ID NO
LENGTH: 679
TYPE: PRT
TYPE: PRT
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; OTHER INFORMATION: mTf sequence in pREX0080
US-10-384-060-76
                                                                                                                                                                     Sequence 3, Application US/10384060 Publication No. US20030226155A1 GENERAL INFORMATION:
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PRIOR FILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 80
SOFTWARE: PatentIn version 3.2
SEQ ID NO 76
LENGTH: 220
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           APPLICANT: SADEGHI, Homayoun
APPLICANT: PRIOR, Christopher P.
APPLICANT: TURNER, Andrew
TITLE OP INVENTION: WODIFIED TRANSFERRIN-ANTIBODY FUSION PROTEINS
FILE REFERENCE: 54710-5004-US
CURRENT APPLICATION NUMBER: US/10/384,060
CURRENT FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/231,494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
NAME/KEY: MISC FEATURE
OTHER INFORMATION: Mature Transferrin Protein
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; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: Mature Transferrin Protein
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publication No. US20040023334A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
TITLE OF INVENTION: Modified Transferrin Fusion Proteins
FILE REFERENCE: 54710-5001-US
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PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 80
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
                                                                                                                                                      Sequence 4, Application US/10429482 Publication No. US20040219097A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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Best Local
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                                                        APPLICANT: Sandhu, Jasbir TITLE OF INVENTION: Composition Useful For The Diagnosis, Imaging and Treatment Of Tun FILE REFERENCE: 2537.00001
CURRENT APPLICATION NUMBER: US/10/429,482
CURRENT FILING DATE: 2003-05-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 60/334,059 PRIOR FILING DATE: 2001-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/231,494
CURRENT FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/315,745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
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ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Mature transferrin protein
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; LENGTH: 679 ; TYPE: PRT ; ORGANISM: Homo sapiens US-10-429-482-4

Matches Query Match

Local Similarity mes 17; Conserv

100.0%; Score 86; ilarity 100.0%; Pred. No. Conservative 0; Mismatch

Mismatches

Indels

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1.1e-05; DB 5;

Length 679;

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NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-515-4
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; LENGTH: 679
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-429-497-4
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US-10-429-598-4
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Publication No. US20040219099A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For The Treatment Of Tumors
FILE REFERENCE: 2537.000005
CURRENT APPLICATION NUMBER: US/10/429,515
CURRENT FILING DATE: 2003-05-02
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Publication W. US20040219098A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods for The Treatment of Tumors
FILE REFERENCE: 2537.00006
CURRENT APPLICATION NUMBER: US/10/429,497
CURRENT FILING DATE: 2003-05-02
GENERAL INFORMATION:
             Sequence 4, Application US/10429598
Publication No. US20040219100A1
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SOFTWARE: PatentIn version 3.1
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; TYPE: PRT ; ORGANISM: Homo sapiens US-10-429-598-4
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US-10-429-653-4
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US-10-429-635-4
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TITLE OF INVENTION: Compositions For Drug Delivery
FILE REFERENCE: 2537,000009
CURRENT APPLICATION NUMBER: US/10/429,653
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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Publication No. US20040219101A1
GENERAL INFORMATION:
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TITLE OF INVENTION: Composition Useful For The Treatment of Tumors
FILE REFERENCE: 2537.000003
CURRENT APPLICATION NUMBER: US/10/429,598
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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Publication No. US20040219102A1
GENERAL INFORMATION:
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LENGTH: 679
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                                                                                                                                         LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
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Local Similarity 100.0%; Pred. No. 1.1e-05;
hes 17; Conservative 0; Mismatches 0;
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Local Similarity 100.0%;
nes 17; Conservative 0
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100.0%; Pred. No. 1.1e-05;
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Pred. No. 1.1e-05;
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NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-659-4
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Publication NO. US20040219104A1
(GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TIFIE OF INVENTION: Methods For Treatment Of Tui
FILE REFERENCE: 2537.000008
(CURRENT APPLICATION NUMBER: US/10/429,661
(CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
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US-10-429-660-4
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                                                                                                             Sequence 4, Application US/10429660
Publication No. US20040220084A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For Nucleic Acid Delivery
FILE REFERENCE: 2537.000012
CURRENT APPLICATION NUMBER: US/10/429,660
CURRENT FILING DATE: 2003-05-02
                                                     NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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Matches
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APPLICANT: Sandhu, Jasbir
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods Useful For The Diagnosis, Imaging and Treatment Of Tumors
FILE REFERENCE: 2537.000004
CURRENT APPLICATION NUMBER: US/10/429,659
CURRENT FILING DATE: 2003-04-30
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
TYPE: PRT
ORGANISM: Homo sapiens
                                     LENGTH: 679
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1 Similarity 100.0%;
17; Conservative 0;
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Pred. No. 1.1e-05;
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Sequence 4, Application US/10429662
Publication No. US20040220085A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Compositions For Nucleic Acid Delivery
FILE REFERENCE: 2537.000010
CURRENT APPLICATION NUMBER: US/10/429,662
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PAT
ORGANISM: Homo sapiens
Search completed: June 13, 2006, 04:56:24
Job time : 98.75 secs
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US-10-429-662-4
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Best Local Similarity 100.
Matches 17; Conservative
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Best Local Similarity
Matches 17; Conserv
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                                                              251 VVARSMGGKEDLIWELL 267
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,,
                                                                                                                                         Score 86; DB 5;
Pred. No. 1.1e-05;
                                                                                                                             Mismatches
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seq length: 2000000000
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| MMC Celerra SIDS3/ptodata/1/pubpaa/US09 NEW PUB.pep:*
| EMC Celerra SIDS3/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
| MMC Celerra SIDS3/ptodata/1/pubpaa/US07 NEW PUB.pep:*
| EMC Celerra SIDS3/ptodata/1/pubpaa/US08 NEW PUB.pep:*
| EMC Celerra SIDS3/ptodata/1/pubpaa/US10 NEW PUB.pep:*
| MMC Celerra SIDS3/ptodata/1/pubpaa/US10 NEW PUB.pep:*
| MMC Celerra SIDS3/ptodata/1/pubpaa/US10 NEW PUB.pep:*
| MMC Celerra SIDS3/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
| MMC Celerra SIDS3/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
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 Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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US-11-258-767-23

US-11-258-767-16

US-11-258-767-16

US-11-258-767-19

US-11-258-767-29

US-11-258-767-29

US-11-258-767-39

US-11-258-767-39
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US-10-515-429-3
US-10-515-429-2
US-10-515-429-41
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RESULT 2 US-10-515-429-3

Sequence 3, Application US/10515429
Publication No. US20060105387A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun

8

274

290

1 VVARSMGGKEDLIWELL 17 VVARSMGGKEDLIWELL

Query Match Best Local Similarity Matches 17; Conserv

Conservative

0,

100.0%;

Score 86; DB 6; Pred. No. 3.7e-07; Mismatches

Length 371; Indels

0

Gaps

0;

RESULT 1  US-10-515-429-63  J Sequence 63, Applicat  Publication No. US20  GENERAL INFORMATION: APPLICANT: Prior, APPLICANT: Sadeghi TITLE OF INVENTION: FILE REFERENCE: O54  CURRENT APPLICATION CURRENT FILING DATE: PRIOR APPLICATION N PRIOR APPLICATION N PRIOR FILING DATE: PRIOR APPLICATION N PRIOR FILING DATE: PRIOR FILING DATE: PRIOR APPLICATION N PRIOR FILING DATE: FRIOR FILING DATE: OTHER INFORMATION: J OTHER INFORMATION: J OTHER INFORMATION: J OTHER INFORMATION:	22225555500000000000000000000000000000
5-429-63 LINFORMATION: LINFORMATION: LINFORMATION: LINFORMATION: CANT: Prior, Christopher P. CANT: Sadeghi, Homayoun OF INVENTION: Transferrin Fusion REFERENCE: 054710-5007-WO NUT APPLICATION NUMBER: US/10/515,4 MUT FILING DATE: 2003-08-26 APPLICATION NUMBER: US 60/406,977 FILING DATE: 2002-08-30 APPLICATION NUMBER: US 60/406,977 FILING DATE: 2003-03-10 APPLICATION NUMBER: US 60/485,404 FILING DATE: 2003-07-09 APPLICATION NUMBER: US 60/485,404 FILING DATE: 2003-07-10 APPLICATION NUMBER: US 60/485,404 FILING DATE: 2003-07-09 APPLICATION NUMBER: US 60/485,404 FILING DATE: 2003-08-26	00000000000000000000000000000000000000
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29-63 29-63 29-63 NO. US20060105387A1 NFORMATION. TI: Prior, Christopher P. TI: Frior, Christopher P. TI: Sadeghi, Homayoun INVENTION: Transferrin F INVENTION: Transferrin F ILING DATE: 2004-11-23 PLICATION NUMBER: PCT/US0 LING DATE: 2003-08-26 LING DATE: 2003-08-26 LING DATE: 2003-08-26 LING DATE: 2003-08-30 PLICATION NUMBER: US 60/4 LING DATE: 2003-07-09 PLICATION NUMBER: US 10/3 PLICATION NUMBER: US 60/4 LING DATE: 2003-07-09 PLICATION PATE: 2003-07-09 PLICATION PATE: 2003-07-09 PSEQ ID NOS: 75 IS PATENTIN VET. 2.1  163 371 M: artificial M: NFORMATION: Vectors 29-63	711 7 711 7 711 7 711 7 711 7 711 7 711 7 711 7 711 7 707 707
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PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR PELLING DATE: 2002-08-30
PRIOR FILING DATE: 2002-08-30
PRIOR FILING DATE: 2002-08-30
PRIOR PRIOR FILING DATE: 2003-03-10
PRIOR PELICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PATENTIN Ver: 2.1
SEQ ID NO 3
LENGTH: 679
TYPE: PRT
RESULT 4
US-10-515-429-41
); Sequence 41, Application US/10515429
; Publication No. US20060105387A1
; GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
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Best Local S
Matches 17
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SEQ ID NO 2
LENGTH: 698
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Publication No. US20060105387A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Homo sapiens
-10-515-429-2
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APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
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CURRENT FILING DATE: 2004-11-23
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CURRENT FILING DATE: 2004-11-23
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wes 17; Conserv
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100.0%; Pred. No.
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7.2e-07;
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Sequence 37, Application US/10515429

Publication No. US20060105387A1

GENERAL INFORMATION:

APPLICANT: Prior, Christopher P.

APPLICANT: Turner, Andrew J.

APPLICANT: Sadeghi, Homayoun

ITITLE OF INVENTION: Transferrin Fusion Protein Libraries

FILE REFERENCE: 054710-5007-WO

CURRENT APPLICATION NUMBER: US/10/515,429

CURRENT FILING DATE: 2004-11-23

PRIOR APPLICATION NUMBER: PCT/US03/26779

PRIOR APPLICATION NUMBER: US 60/406,977

PRIOR FILING DATE: 2003-08-36

PRIOR APPLICATION NUMBER: US 60/406,977

PRIOR FILING DATE: 2002-08-30
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                                                                                                                                                     ; LENGTH: 676
TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-10-515-429-37
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SOFTWARE: PatentIn Ver. 2
SEQ ID NO 37
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SEQ ID NO 41
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APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11-23
                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
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PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
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NUMBER OF SEQ ID NOS: 75
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 685
TYPE: PRT
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251 VVARSVDGKEDLIWELL 267
                      1 VVARSMGGKEDLIWELL 17
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                                                                                              Similarity
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                                                                                            87.2%;
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                                                                                              Score 75; DB 6;
Pred. No. 4.9e-05;
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Pred. No.
                                                                              Mismatches
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RESULT 6
US-11-258-767-23
; Sequence 23, Application US/11258767
; Publication No. US20060094082A1

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; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 708
; TYPE: PRT
; ORGANISM: CAMEL
US-11-258-767-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; LENGTH: 708
; TYPE: PRT
; ORGANISM: CAMEL
US-11-258-767-24
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APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
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SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
                                                                                                                                                              Sequence 13, Application US/11258767 Publication No. US20060094082A1 GENERAL INFORMATION:
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Best Local Similarity
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APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REPERENCE: HO-PO2915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
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PRIOR FILING DATE: 2004-10-26
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CURRENT FILING DATE: 2005-10-26
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APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
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les 14; Conserv
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10. US20060094082A1
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ilarity 82.4%;
Conservative
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82.4%;
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Pred. No. 0.00016;
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Pred. No. 0.00016;
2; Mismatches 1
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; TYPE: PRT
; ORGANISM: COW
US-11-258-767-13
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US-11-258-767-19
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                                                                   CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIN version 3.3
SEQ ID NO 19
                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
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SOFTWARE: PatentIn version 3.3
SEQ ID NO 16
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ORGANISM: WATER BUFFALO
-11-258-767-19
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CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
                                                                                                                                                                                                APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
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APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
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PRIOR FILLING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn version 3.3
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TYPE: PRT
                                      LENGTH: 7
TYPE: PRT
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82.4%;
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Pred. No. 0.00023;
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; SOFTWARE: PATENTIN \
; SEQ ID NO 29
; LENGTH: 708
; TYPE: PRT
; ORGANISM: COW
US-11-258-767-29
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; ORGANISM: COW
US-11-258-767-22
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US-11-258-767-29
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Best Local S
Matches 14
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Publication No. US20060094082A1

GENERAL INFORMATION:

APPLICANT: Varadhachary, Atul

APPLICANT: Glynn, Peter

APPLICANT: Petrak, Karel

APPLICANT: Engelmayer, Jose

TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF

FILE REFERENCE: HO-P02915US1

CURRENT FILING DATE: 2005-10-26

PRIOR APPLICATION NUMBER: US 60/622,176

PRIOR FILING DATE: 2004-10-26

PRIOR FILING DATE: 2004-10-26
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Publication No. US20060094082A1
GENERAL INFORMATION:
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SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 708
                                                                                              Query Match
Best Local Similarity
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Best Local Similarity
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APPLICANT: Glynn, Peter
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR APPLICATION DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
NUMBER OF SEQ ID NOS: 67
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Similarity 82.4%;
14; Conservative
     VVARSVDGKEDLIWKLL 290
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nilarity 82.4%;
Conservative
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                                                                                              82.6%;
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                                                                                            Score 71; DB 7;
Pred. No. 0.00024;
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Pred. No. 0.00024;
                                                                             Mismatches
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                                                                                                              Length 708;
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US-11-258-767-39

Sequence 39, Application US/11258767 Publication No. US20060094082A1 GENERAL INFORMATION:

APPLICANT: Varadhachary, Atul APPLICANT: Glynn, Peter

Glynn, Peter Petrak, Karel

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LENGTH: 708
TYPE: PRT
ORGANISM: COW
US-11-258-767-35
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US-11-258-767-35
RESULT 15
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SOFTWARE: PatentIn versi
SEQ ID NO 35
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SEQ ID NO 38
LENGTH: 708
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Best Local
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APPLICANT: Engelmanner
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TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
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APPLICANT: Glynn, Peter
                                                   1 VVARSMGGKEDLIWELL 17 |||||: ||||||: || 290
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14; Conserv
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Pred. No. 0.00024;
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86
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(c) 1993 - 2006 Biocceleration Ltd.
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40.065 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	89	7	9	ъ	.4	ω	N	<b>1</b>	NO.	Result
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Aaw29694 TNF recep	Aar06889 HTLV-I en	Adm96821 Tissue fa	Adm96841 Tissue fa	Aay24901 Peptide N	Ads51653 Chromatin	Ado03771 Human CLM	Adg39400 Tryptic 4	Aau78549 Scrambled	Aaw58715 Tryptic 4	Aef38807 E. coli L	Ady39273 Human zsi	Abg72317 Human pro	Aae15890 Human zsi	Aae23845 Human zsi	Aay41871 Rheumatoi	Adm96873 Tissue fa	Ade65973 Human 161	Adx17340 Human ser	Ads13216 Human rhe	Adr15963 Transferr	Adr15903 Transferr	Adg46075 Human CDT	Description	•

45	44	43	42	41	40	39	38	37	36	ა 5	34	33	32	31	30	29	28	27	26	25	24
24	24	24	24	24	24.5	24.5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
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Abg69725	Aau68379	Aab39215	Aap91103	Aap50736	Aec81921	Adt79005	Aec21066	Adu87378	Adt55054	Adj99978	Adk52246	Adj67240	Adk17244	Adj82185	Adh17278	Adh17195	Adf55507	Abb76441	Aaw29693	Aaw29691	Adw29690
Polypept	Human Bre	Human sec	New immun		Polypept	DNA-PK	Human IgE	Peptide		Breast ca				Peptide f		Human D-A	E-selecti	Peptide w	TNF recep	TNF recep	TNE TECEP

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                                                                                                                                                       The present invention describes an assay for a protein having at least two isoforms with different glycosylation patterns. The assay involves contacting a sample containing the protein with a proteolytic enzyme, followed by detecting the content or relative content of at least one peptide fragment produced by proteolysis. Also described is a kit for the assay method comprising the proteolytic enzyme and a substrate bound specific binding partner (S1) for at least 2 of the isoforms of the proteins. The method can be used for assaying isoforms of proteins according to their glycosylation pattern to determine their concentration or relative concentration in the sample or material (e.g. blood). The method avoids use of antibodies for distringuishing between glycosylated isoforms of the proteins. The present sequence represents a transferrin peptide fragment which is used in the exemplification of the present
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Assay for differentiating protein isoforms to determine their concentrations in sample e.g. blood, involves contacting the sample with proteolytic enzyme to produce peptide fragment by proteolysis followed by
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ADS13216 ID ADS1 XX AC ADS1

ADS13216 standard; peptide; 17

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ADS13216;

RESULT 4

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RESULT 3
ADR15963
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peptide fragment which is
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                                                                                                                      Gaps
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16-DEC-2004

(first entry)

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RESULT 5
ADX17340
ID ADX1
XX ADX1
AC ADX1
AC ADX1
XX Plan
DT 21-A
XX Prot
XX Prot
XX Prot
XX WO20
PN WO20
PN WO21
PF 23-:
                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Thes 8; Conserve
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                                                                                                                                                                                                                                                                                                                                                         Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel isolated marker for rheumatoid arthritis selected from one of many (around 400) markers defined in the specification. Rheumatoid arthritis is a chronic inflammatory disorder of the small joints which is estimated to affect 2.1 million people in the United States alone. Current approaches to treat the disease include the use of non-steroidal antinflammatory drugs (NSAIDS), which may reduce pain, swelling and inflammation, and disease-modifying anti-rheumatic drugs (DMARDS), which act to slow the progression of the disease and avoid further joint injury. These drugs are associated with a number of serious side effects and the search for improved therapeutics is a subject of active research. The marker of the invention demonstrates antiarthritic activity and may be useful in preparing a composition for diagnosing or treating rheumatoid arthritis. The current sequence is that of a human rheumatoid arthritis marker peptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New isolated marker for rheumatoid arthritis, useful in preparing composition for diagnosing or treating rheumatoid arthritis.
 23-JUL-2004; 2004WO-US023908.
                                  10-FEB-2005
                                                               WO2005011576-A2
                                                                                                                         protein purification; chromatography; screening
                                                                                                                                                          Human serum albumin
                                                                                                                                                                                         21-APR-2005
                                                                                                                                                                                                                      ADX17340;
                                                                                                                                                                                                                                                   ADX17340 standard; peptide; 17 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 17 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; SEQ ID NO 7; 184pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-690929/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kantor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-MAR-2004; 2004WO-US007880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-SEP-2004.
                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SURR-) SURROMED INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAR-2003; 2003US-0455037P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2004082617-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rheumatoid arthritis; marker; antiinflammtory; antiarthritic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human rheumatoid arthritis marker peptide - SEQ ID 7.
                                                                                                                                                                                                                                                                                                                                                              10
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                                                                                                                                                                                                                                                                                                                               EDLIWELL 8
                                                                                                                                                                                                                                                                                                                                                     EDLIWELL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Becker CH,
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                       (first entry
                                                                                                                                                        (HSA) peptide fragment, SEQ ID 238.
                                                                                                                                                                                                                                                                                                                                                                                          50.0%; Score 43;
100.0%; Pred. No.
cive 0; Mismatci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Schulman
                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                          DB 8;
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RESULT 6
ADE65973
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Best Local Similarity
             A composition for diagnosing, preventing and treating cancer (e. prostatic, renal or uterine cancer) comprises 161P2F10B polynucl
                                                                                                                                                    07-NOV-2001; 2001US-00005480
31-JAN-2002; 2002US-00062109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               manufacture comprising a computer readable media with computer-readable instructions for carrying out the method. The method is useful for analyzing a mixture of proteins. The method is useful for screening and characterization of protein mixtures. This sequence represents a human serum albumin (HSA) peptide fragment used in the novel protein analysis method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel method for analyzing a mixture of proteins. The method involves selecting sets of peptides from several peptides. Sequencing one or more portions of the peptides in two or more sets of peptides, to produce a data set, and determining the likelihood of the presence of two or more proteins in the mixture of proteins based on two or more data sets. The invention further comprises an article of
                                                                                 Jakobovits A, Morrison RK,
                                                                                                                                                                                                                                                                                                                                                                                                                        ADE65973 standard; peptide; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Analyzing mixture of proteins by sequencing portions of peptides in two or more sets of peptides from several peptides, to produce data set, determining likelihood of presence of proteins in mixture of proteins
           prostatic, renal or uterine
                                                     WPI; 2003-441560/41.
                                                                                                                                                                                                                         15-MAY-2003.
                                                                                                                                                                                                                                                                                                         161P2F10B; cancer;
                                                                                                                                                                                                                                                                                                                                                                29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                            ADE65973;
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                                                                                                                                                                                             07-NOV-2002; 2002WO-US036002
                                                                                                                                                                                                                                                    WO2003040340-A2
                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                   Human 161P2F10B protein variant 3 peptide SeqID85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 4; SEQ ID NO 238; 140pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 based on data sets.
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                                                                                                                          (AGEN-) AGENSYS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BEYO-) BEYOND GENOMICS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                Raitano AB,
Challita-Eid
                                                                                                                                                                                                                                                                                                          cytostatic;
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                                                                                 Faris M,
PM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 43;
Pred. No.
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                                                                                                                                                                                                                                                                                                          gene therapy; vaccine; human
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                                                                                              Hubert RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 9;
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             ancer (e.g.
polynucleotides
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and polypeptides.

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Query Match
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Matches 4
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The invention relates to peptide antagonists of tissue Factor VIIa (tFVIIa) and a method of inhibiting FVIIa activity by contacting FVIIa with the peptide in the presence of tissue factor and under conditions that allow binding of the compound to FVIIa to occur. The peptides are useful for preventing or treating chronic thromboembolic diseases or disorders associated with fibrin formation including vascular disorders, such as deep venous thrombosis, arterial thrombosis, stroke, atherosclerosis, or septicaemia. The present sequence represents a tFVIIa peptide antagonist of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissue Factor VIIa; tFVIIa; chronic thromboembolic disease; fibrin formation; vascular disorders; deep venous thrombosis; arterial thrombosis; stroke; atherosclerosis; septicaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                New peptide, useful for preventing or treating chronic thromboembolic diseases or disorders associated with fibrin formation including vascular disorders, such as deep venous thrombosis, arterial thrombosis, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-356247/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lazarus RA, Maun HR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GETH ) GENENTECH INC
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                                                                                                                                                                                                                                                                                                                        <u>ب</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGKPEALW 16
                                                                                                                                                                                                                                                                                                                        SEQ ID NO
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                                                                                                                                                                                                                                                                                                                     295; 102pp; English.
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Pred. No. 8.2e+02;
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                                    CC arthritis (RA) using two-dimensional electrophoresis to generate a two-cdimensional array of features. The method can be used for screening, CC dimensional array of features. The method can be used for screening, CC diagnosis and prognosis of RA in a subject or for monitoring the effect of an anti-RA drug or therapy administered to a subject. The method CC comprises: (a) analysing a sample of serum or plasma and optionally CC synovial fluid by two-dimensional electrophoresis, to generate a two-cdimensional array of features; (b) identifying at least one chosen CC dimensional array of features; (b) identifying at least one chosen CC of RA; and (c) comparing the abundance of each chosen feature in the CC chosen feature or features in the sundance of the the abundance of the chosen feature in serum or plasma from CC chosen feature or features in the sample indicates the presence or CC chosen feature or features in the sample indicates the presence or CC diagnostic protein isoforms (RPIs), and for production of antibodies to CR and CR an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; rheumatoid arthritis; RA; diagnosis; RPI; RADF; detection; rheumatoid arthritis diagnostic feature; ERPI; synovial fluid; rheumatoid arthritis diagnostic protein isoform; screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A method has been developed for the diagnosis of human rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 18; 157pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Diagnosis of human rheumatoid arthritis by two-dimensional
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Parekh RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expression reference protein isoform; prognosis.
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Pred. No. 1
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The invention relates to zsig33-like peptides and their corresponding CC nucleic acids and methods for modulating gastric contractility, nutrient CC uptake, growth hormones, secretion of digestive enzymes and hormones. The cc sequences of the invention are used in the prevention, diagnosis and creatment of diseases associated with inappropriate ZSIG33 expression. The nucleic acids of the invention and their complements are used as DNA CC probes in diagnostic assays to detect and quantitate the presence of similar nucleic acids in samples, and therefore which patients may be in need of restorative therapy. The ZSIG33 peptides are used as antigens in the production of antibodies against ZSIG33 and in assays to identify complements of ZSIG33 expression and activity. The anti-ZSIG33 antibodies are also used as diagnostic agents for detecting the presence of ZSIG33 in samples (e.g. by enzyme linked immunosorbent assay [BLISA)]. The peptides and nucleic acids of the invention are used to modulate gastric contractility, nutrient uptake, growth hormones, the secretion of digestive enzymes and hormones, and/or secretion of enzymes and zsig33-like peptide is used in protein therapy. The present sequence coil is human zsig33-like peptide, zsig33-gamma peptide.
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growth
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(SHEP/)
(DEIS/)
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SHEPPARD P O.
DEISHER T A.
BISHOP P D.
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5; Conserv
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hes 0;
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Best Local Similarity
Matches 3; Conserv
                  immunodeficiency virus (HIV) patients, in improving vaccines and in treatment of bacterial, viral, protozoal and fungal infections. Peptides of the invention are used to identify and isolate receptors involved in growth regulation in the liver, blood vessel formation and other developmental processes. They are useful for evaluating functions of hypothalamus-pituitary-adrenal axis, to modulate growth and/or differentiation of tumour cells, as additives to anti-hypoglycaemic preparations containing glucose and as assorption enhancers for oral drugs which require fast nutrient action and to stimulate glucose-induced insulin release. They are also useful as research reagents for the expansion, differentiation, growth factor and hormone secretion and/or
                                                                                                                                                                                                                                                                                                                                     The invention relates to zsig33-like peptides (ZS33LP) including zsig33-linker, zsig33-beta, zsig33-gamma, zsig-33-delta and zsig33-epsilon peptides and nucleic acid molecules encoding such zsig33-like peptides. ZS33LP peptides activate the immune system in boosting immunity to infectious diseases, treating immunocompromised patients such as human infectious diseases, treating immunocompromised patients and treating immunocomp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides, useful for modulating gastric contractility, nutrient uptake, pancreatic secretion of hormones, digestive enzymes and treating gastrointestinal and growth related diseases, comprises zsig33-like
   expansion, differentiation cell-cell interactions of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; zsig33-like peptide; ZS33LP; immunity; developmental process; infection; human immunodeficiency virus; vaccine; antihypoglycaemic; adsorption enhancer; gastrointestinal disease; growth related disease; inflammation; gene therapy; growth regulation; blood vessel formation;
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Pred. No. 1.8e+03;
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RESULT 11
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                          The invention relates to an isolated pro-apoptotic polypeptide, designated DIABLO, or its biologically active fragment of 8 amino acids in length. Also included are the polypuclectide encoding DIABLO, expression vectors, transformed host cells, producing a biologically expression vectors, transformed host cells, producing a biologically active fragment of DIABLO (by contacting an inhibitor of apoptosis (IAP) with a fragment of the polypeptide, and detecting a reduction in activity of the IAP), producing a natural or synthetic variant of DIABLO with cell
                                                                                                                                                                                                                                                                                                                                                  New pro-apoptotic polypeptide, useful for screening for agents which modulate cell death and for treating conditions associated with cell death or apoptosis e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Verhagen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-MAR-2001; 2001US-00798116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; pro-apoptotic protein; DIABLO; cell death; apoptosis; inhibitor of apoptosis; IAP; cancer; vascular disease; hepati autoimmune disease; neurodegenerative disease; tissue damage; muscular tissue damage; heart attack; hepatic tissue damage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABG72317 standard; peptide; 17
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                                                                                                                                                                                                                                                                                     Example 8; Page 4; 50pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-074681/07
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Pred. No. 1.8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
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CC DIABLO in a biological sample (by contacting the sample with an IAP and CC detecting the presence of an IAP/DIABLO complex), modulating the death of CC a cell (by contacting a cell with an agent, which modulates the level CC and/or functional activity of a polypeptide), a composition for CC treatment/prophylaxis of a DIABLO related condition comprising an agent which reduces the level/activity of a polypeptide or DIABLO. DIABLO, or a CC mucleic acid encoding DIABLO, is useful for screening for an agent which cc modulates cell death. An antigen-binding molecule is useful for detecting CC DIABLO in a biological sample. The agent which modulates the level and/or functional activity of a polypeptide comprising mature or pro-human CC DIABLO polypeptide, is useful for the treatment and/or prophylaxis of a CC cancer, vascular disease, hepatic disease, autoimmune disease and CC cancer, vascular disease, hepatic disease, autoimmune disease and CC cancer vascular disease, hepatic disease, autoimmune disease and CC conditions associated with expression or activation of DIABLO, such as CC conditions associated with cell death or apoptosis. The present sequence CC represents a partial paptide sequence from human DIABLO, identified by protein sequencing of a protein (later identified as DIABLO) which co-cc precipitates with the human IAP protein MIHA (not defined)
ADY39273
ID ADY39273
ADY39273
AC ADY39
AC Gast
KW Gene
KW Nephin
KW Gynec
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                                                                                                N-PSDB;
                                                                                                                                                                                                                                                                                                                     11-MAY-2000; 2000US-0203300P
10-MAY-2001; 2001US-00853253
                                                                                                                                                                                                                                                                                                                                                                                                                  19-AUG-2004; 2004US-00921371.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-MAY-2005
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                                                                                                                                                                                          Jaspers SR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                         (ZYMO ) ZYMOGENETICS INC
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DB; ADY39272.
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                                                                                                                                                                                       Sheppard
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New zsig33-like polypeptide, useful for treating a disease, e osteoporosis, obesity, dwarfism, wound healing, inflammation,

e.g. n, infectious

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ABF38807

XX ABF3

AC ABF3

AC ABF3

XX E. (ABF3

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Matches
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This invention describes a novel protein construct comprising a La repressor peptide and a His3-20 linker peptide sequence or a LacI repressor peptide (AEF38804), its functional variant and a linker AEF38810) adapted to bind to support surface. The invention also describes; a) a nucleic acid encoding the construct; b) a vector comprising the nucleic acid and c) a kit comprising the construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and/or secretion of enzymes and/or hormones in the pancreas. They are also useful for treating diseases and conditions associated with bone formation (e.g. osteoporosis), immunity, obesity and metabolic disorders, dwarfism, wound healing, reproduction, as well as conditions associated with scress, kidney and lung dysfunction, aging and elderly, including, muscle strength, bone fragility and skin thickness, and neuroendocrine activities such as sleep. They are also useful for treating inflammation, diabetic gastroparesis, infectious disease, HIV, bacterial or viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diabetic gastroparesis, infectious disease, HTV, bacterial or viral infection, or cancer, for improving vaccines, and for stimulating an immune response. The present sequence is one such zeig33-like peptide of the invention. This sequence corresponds to residues 101-117 of the full
                                                                                                                                                                                                                                                                                                                                                        03-JUL-2004; 2004GB-00014987
                                                                                                                                                                                                                                                                                                                                                                                             08-MAR-2005; 2005WO-GB000888
                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JAN-2006.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fusion protein; LacI repressor; reporter protein; DNA purification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E. coli LacI repressor hinge region SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-MAR-2006
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the gastrointestinal system. The zsig33-like peptides and coding sequences are useful for modulating gastric contractility, nutrient uptake, growth hormones, the secretion of digestive enzymes and hormones.
                                                                                                                                                                                                                                         WPI; 2006-090395/09
                                                                                                                                                                                                                                                                             Hine AV, Darby RAJ
                                                                                                                                                                                                                                                                                                                    (UYAS-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to novel zsig33-like peptides (I), which are produced by peptide cleavage from the C-terminal end of zsig33. zsig33 has homology to motilin and has been found to be transcribed in the gastrointestinal system. The zsig33-like peptides and coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 5; SEQ
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                                                                                                                                                                              protein comprising LacI repressor nce, useful for purifying DNA.
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                                                                                                                                       ID NO 15; 72pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 28; DB 9;
Pred. No. 1.8e+03;
3; Mismatches 0
                                                                                                                                                                                                  peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15
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                                                                                                                                                                                                and
                                                                                                                                                                                                a 3-20 linker peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                     a LacI
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                                                            peptide
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RESULT 14
AAW58715
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC lyophilized form and a support surface. The construct comprises a fusion CC protein, in which the LacI repressor peptide is fused, and thus CC functionally bound to the linker peptide. The LacI repressor peptide CC comprises an NH 2 -terminal headpiece (AEF38806), a hinge region CC (AEF38807), an inducer binding domain (AEF38806), and a CCOH-terminal CC (AEF38803). The construct also comprises a reporter protein CC comprising at least a region of lacO operator or its variant which CC comprising at least a region of lacO operator or its variant which CC involves contacting DNA comprising a region of lacO operator sequence CC with the construct to form a DNA/protein complex, attaching the CC DNA/protein complex to a support surface, and eluting the DNA from the CC DNA/protein complex. The DNA to be purified comprises a) at least one of CC lacOl, lacO2, lacO3 sites, or its derivative or variant; b) is contained CC in a plasmid or a crude cell lysate. The support surface is adapted to CC bind to the construct and comprises a porous resin. Eluting is carried CC unt by washing the support to which the protein/DNA complex is attached, with an allosteric inducer of the LacI repressor protein (e.g. isopropyl-beta) the support surface. The construct salt. CC beta-D-thiogalactopyranoside or allolactose) in conjunction with salt. CC and effective isolation of highly pure DNA, and is cost effective. This sequence represents the E. coli LacI repressor protein hinge region, used to make the construct LacI-Hie6-GFP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                            22-DEC-1989;
09-MAY-1990;
27-AUG-1990;
24-MAR-1992;
                                                                                                                                                                                                                                                                                                                                                                                                              Cytotoxic lymphocyte maturation factor; CLMF; cytokine; synergize; interleukin 2; IL-2; human; lymphoblastoid cell; detection; purifying; proliferation; cytotoxic T cell; transplantation; antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW58715;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 17
                                                              WPI; 1998-413150/35
                                                                                              Podlaskí FJ,
Chizzonite RA,
                                                                                                                                                                                02-MAR-1994;
                                                                                                                                                                                                                                                                              02-JUN-1995;
                                                                                                                                                                                                                                                                                                              14-JUL-1998
                                                                                                                                                                                                                                                                                                                                              US5780597-A.
                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tryptic 40 kD subunit CLMF peptide off PVDF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW58715 standard; peptide; 17 AA
                                                                                                                                               (HOFF ) HOFFMANN LA ROCHE INC
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5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                             Stern AS, C
, Gubler UA,
                                                                                                                                                                            94US-00205011.
                                                                                                                                                                                               90US-00572284.
92US-00857023.
                                                                                                                                                                                                                              90US-00520935
                                                                                                                                                                                                                                              89US-00455708
                                                                                                                                                                                                                                                                              95US-00460061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   32.6%;
45.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 28; DB 10;
Pred. No. 1.8e+03;
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                                                                                                                Pan
                                                                                                                YΕ,
                                                                                                                Hulmes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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New antibodies to cytotoxic lymphocyte maturation factor - useful for detecting, purifying, and/or blocking proliferation and activation of cytotoxic T cells, such as in transplantation(s).

Example

3; Col

23; 71pp; English

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RESULT 15
AAU78549
ID AAU78549
ID AAU786
XX AAU78
AC AAU78
XX Perle
KW Perle
KW Pepax
KW Carti
XX Synth
AX Synth
AX 27-AL
XX 27-AL
XX 27-AL
XX 27-AL
XX PR 31-AL
PR 17-AL
XX 27-AL
XX 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 5
                        This invention relates to an adhesive polypeptide derived from domain IV of the extracellular matrix protein perlecan. Perlecan is is a heparin sulphate proteoglycan and is also known as HSPG2. The polypeptide of the
                                                                                                                                                                                                                    New polypeptides derived from the perlecan core protein, useful for strong and selective cell adhesion, particularly as coating for scaffolds for tissue repair, e.g. for treating tooth or cartilage defects, or repairing damaged skin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-AUG-2000; 2000US-0229222P.
01-AUG-2001; 2001US-0309209P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Perlecan; cell adhesion; extracellular matrix; adhesive polypeptide; heparin sulphate proteoglycan; HSPG2; scaffold; bone; cartilage; tissue damage; tissue repair; bone loss; tooth loss; gum disease; cartilage defect; rheumatoid arthritis; osteoarthritis; ulcer.
                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-AUG-2001; 2001WO-US026640.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200218423-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Farach-Carson MC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Scrambled human perlecan cell adhesion peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-JUN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAU78549;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAU78549 standard; peptide; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (UYDE ) UNIV DELAWARE
                                                                                                                                                                                                                                                                                                                                                                                                   2002-304245/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KEDGIW 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9 KEDLIW 14
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                                                                                                                                                          Page 18; 41pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Carson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31.4%;
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                                                                                                                                                             English.
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Pred. No. 2.6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Safran JB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
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invention allows strong and selective cell adhesion and is useful as coating for scaffolds, e.g. implantable tissue scaffolds. The polypeptide may be coated on matrices implanted in damaged tissue (e.g. bone or cartilage) to increase the adhesion of desirable biological materials to the repair site. The scaffolds are useful for treating tooth and jaw defects (e.g. in cases of trauma, bone loss, tooth loss or gum disease) or cartilage defects (e.g. those that result from rheumatoid arthritis, osteoarthritis or trauma), or to repair defects and damage in skin, muscle and other soft tissue such as those that result from trauma, burns or ulcers. The present sequence represents a peptide composed of the scrambled sequence of human perlecan adhesion peptide. This peptide was used as a control for cell adhesion assays in the examples of the method
                                                            invention
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Best Matches Local w l Similarity 6; Conserv 4 RSMGGKEDLIW 14 KSVGG--SLIW 11 Conservative 31.4%; 2; Score 27; Pred. No. Mismatches 6e+03 ν •• Gaps

DB 5;

Length 17

Query Match

Sequence 17 AA;

Search completed: June 13, Job time : 198 secs 2006, 01:27:39

유 8

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Minimum DB
Maximum DB
                                                                Database
                                                                                                             Post-processing: Minimum Match
Maximum Match
                                                                                                                                                                                                                                                                                                                                                                                                                       Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   OM protein - protein search, using sw model
                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                            Searched:
                                                                                                                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                                                                                          Sequence:
                                                                                                                                                                                                                                                                                                                                         Perfect score:
                                                                                                                                                            seq length: 17 seq length: 17
                                                                                                                                                                                                                                                                                          BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                     June 13, 2006, 01:33:43; Search time 38 Seconds (without alignments)
                                                                                                                                                                                                                                                                                                                                         US-10-612-162A-1
86
                                                                                                                                                                                                                                          283416 seqs, 96216763 residues
                                                                                                                                                                                                                                                                          Gapop 10.0 , Gapext 0.5
                                                               PIR_80:*
                                                                                             Listing
                                                                                                                                                                                                                                                                                                                          VVARSMGGKEDLIWELL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Copyright
pir1:*
pir2:*
pir3:*
pir4:*
                                                                                                first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                             100%
                                                                                              45 summaries
                                                                                                                                                                                                                                                                                                                                                                                  (without alignments)
43.044 Million cell updates/sec
                                                                                                                                                                                                              218
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

A;Molecule type: protein
A;Residues: 1-17 <BST'>
A;Residues: 1-17 <BST'>
A;Cross-references: UNIPROT:Q7M432; UNIPARC:UPI0000175C3B
C;Superfamily: trypsin; trypsin homology
C;Keywords: hydrolase; protein digestion; serine proteinase

A;Title: Dermasterias imbricata trypsin 1: an enzyme which rapidly hydrolyzes the reacti A;Reference number: A61334; MUID:80109692; PMID:7352972 A;Accession: B61334

R;Estell, D.A.; Laskowski Jr., M. Biochemistry 19, 124-131, 1980

Accession: B61334

## SUMMARIES

Matches

4; Conservative

Query Match Best Local Similarity

26.7%;

Score 23; DB 2; Pred. No. 1.6e+03; 1; Mismatches 0

DB 2; Length 17; 0

Indels

0

Gaps

0

### ALIGNMENTS

trypsin (EC 3.4.21.4) 2 - starfish (Dermasterias imbricata) (fragment) C;Species: Dermasterias imbricata C;Date: 17-Jul-1994 #sequence\_revision 17-Jul-1994 #text\_change 09-Jul-2004

RESULT 1

```
R; MOUTERS-Tyrou, D.; Martin-Ponthieu, A.; Sautiere, P.; Biserte, G.
FEBS Lett. 128, 195-200, 1981
A;Title: Acetylation of histone H4 in chicken erythrocyte and cuttle-fish testis chromat A;Reference number: A61321; MUID:81261219; PMID:7262310
A;Gratus. A61321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
A61321
                    á
                                                                                                                                         C;Superfamily: histone H4
C;Keywords: acetylated amino end; acetyllysine
F;1/Modified site: acetylated amino end (Ser) #status experimental
F;5,12,16/Binding site: acetyl (Lys) (covalent) (partial) #status experimental
                                                                                                                                                                                                                                A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-17 <AUU>
A;Cross-references: UNIPROT:Q7M3Z5; UNIPARC:UPI00001771C6
                                                                                                                                                                                                                                                                                                                                                                                                                                             histone H4 - common cuttlefish (fragment)
C;Species: Sepia officinalis (common cuttlefish)
C;Species: 17-Jul-1994 #sequence_revision 17-Jul-1994 #text_change 09-Jul-2004
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                                                              Matches
                                                                                                    Query Match
                                                                                  Local Similarity
4 RSMGGK 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 MGGKE 10
                                                              4.
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                                                              Conservative
                                                                                24.4%;
                                                              <u>.</u>.
                                                            Score 21; DB 2; Lo
Pred. No. 3.5e+03;
0; Mismatches 2;
                                                                                                      Length 17
                                                                Indels
                                                              0
                                                              Gaps
                                                              0
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hypothetical protein Z4331 [imported] - Escherichia coli (strain O157:H7, substrain C;Species: Escherichia coli C;Species: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2nn4 C;Accession: G85956
                                                A;Title: Genome sequence of enterohemorrhagic Escherichia coli A;Reference number: A85480; MUID:21074935; PMID:11206551 A;Accession: G85956
                                                                                                                                                                                                                         RESULT
G85956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Residues:
 A; Molecule type: DNA
A; Residues: 1-17 < STO>
                              A; Status: preliminary
                                                                                                  C;Accession: G85956
R;Perna, N.T.; Plunkett III, G.; l
iller, L.; Grotbeck, E.J.; Davis,
Nature 409, 529-533, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R.Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L. J. Exp. Med. 174, 1371-1383, 1991
A.Title: T cell receptor genes in a series of class I major histocompatibility complex-lallelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   T-cell receptor alpha chain (RA10.3.3) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #;Cross-references: UNIPROT:P70081; UNIPARC:UPI00001771C6
C;Keywords: acetyllyaine
F;1/Modified site: acetyllyaine end (Ser) #status exp
F;5,12,16/Binding site: acetyl (Lys) (covalent) (partial)
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A; Residues: 1-17 < CAS>
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Best Local S
Matches 4
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                                                                                                                                               Experimental source: T lymphocyte; Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cross-references: UNIPARC:UPI000017C784;
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                                                                                                                                                                                                                                                                                             NOGGSAKLIF 16
                                                                                                                                                                                                                                                                                                                           SMGGKEDLIW 14
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                                                                                                                                                                                                                                                                                                                                                               Conservative
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gallus (chicken)
                                                                                                                                                                                                                                                                                                                                                                             23.3%;
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                                                                                                                  Burland, V.; Mau, B.; Glasner, N.W.; Lim, A.; Dimalanta, E.;
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                                                                                                                                                                                                                                                                                                                                                                             Score 20;
Pred. No.
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Pred. No. 3.
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3.5e+03;
                                                                                                                                                                                                                                                                                                                                                                             DB 2; I
5.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #status experimental
t) (partial) #status
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                                                                                  O157:H7
                                                                                                                   J.D.; Rose,
Potamousis,
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                                                                                                                   D.J.;
K.; Aj
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    .; Mayhew 
Apodaca,

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RESULT
E59137
                                                                                                                                                                                                                                                             A;Status: preliminary; not compared with conceptual translation A;Molecule type: nucleic acid A;Residues: 1-17 <ROS>
                                                                                                                                                                                                                                                                                                                          R;Rosenberg, W.M.; Moss, P.A.; Bell, J.I.
Eur. J. Immunol. 22, 541-549, 1992
A;Title: Variation in human T cell receptor V beta and J beta repertoire: analysis using A;Reference number: A49039; MUID:92164737; PMID:1311263
                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Homo sapiens (man)
C;Date: 21-Jan-1994 #sequence_revision 18-Nov-1994 #text_change 30-May-1997
C;Accession: B49255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-17 <POR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Porcelli, S.; Yockey, C.E.; Brenner, M.B.; Balk, S.P. J. Exp. Med. 178, 1-16, 1993
A;Title: Analysis of T cell antigen receptor (TCR) expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T cell receptor alpha chain V region (clone 2PBL V alpha 24-5) - C;Species: Homo sapiens (man) C;Date: 16-Jul-1999 #text_change 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
PH1789
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A;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
                                                                    문
                                                                                                  á
                                                                                                                                                                                                         A;Note: sequence extracted from C;Keywords: T-cell receptor
                                                                                                                                                                                                                           A;Cross-references: UNIPARC:UPI000017C3BA
A;Note: sequence extracted from NCBI backbone (NCBIP:90723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    T-cell receptor beta chain V-D-J-C region (V beta 8, J beta 2.7) -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 7
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Pred. No.
                                                                                                                                                      Score 19;
Pred. No.
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7.7e+03;
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5.2e+03;
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protein Pfd3 - golden needle mushroom (fragment)
c;Speciles: Flammulina velutipes (golden needle mushroom)
C;Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text.
C;Accession: E59137

#text\_change

09-Jul-2004

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1
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W;Alternate names: conoctoxin GV; sleeper peptide
C;Species: Conus geographus (geography cone)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A05168
R;McIntosh, J.M.; Olivera, B.M.; CTuz, L.J.; Gray, W.R.
J. Biol. Chem. 259, 14343-14346, 1984
A;Title: gamma-Carboxyglutamate in a neuroactive toxin.
A;Reference number: A05168; MUID:85054897; PMID:6501296
A;Molecula ******
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A; Residues: 1-17 < MCI>
A; Cross-references: UNIPROT: P07231; UNIPARC: UPI000014A469

A; Cross-references: UNIPROT: P07231; UNIPARC: UPI000014A469

R; Rigby, A.C.; Baleja, J.D.; Furie, B.C.; Furie, B.
Submitted to the Brookhaven Protein Data Bank, February 1997

A; Reference number: A67471; PDB: IAD7

A; Reference: A.C.; Baleja, J.D.; Furie, B.C.; Furi
                                                                                                                                                                                                                                                 C;Accession: A61334
R;Estell, D.A.; Laskowski Jr., M.
Biochemistry 19, 124-131, 1980
A;Title: Dermasterias imbricate trypsin 1:
A;Reference number: A61334; MUID:80109692;
A;Accession: A61334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Contents: annotation; conformation by (1)H-NWR
C;Superfamily: conantokin
C;Superfamily: conantokin
C;Keywords: amidated carboxyl end; carboxyglutamic acid; neurotoxin; venom
E;3,4,7,10,14/Modified site: gamma-carboxyglutamic acid (Glu) #status experimental
F;17/Modified site: amidated carboxyl end (Asn) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          trypsin (EC 3.4.21.4) 1 - starfish (Dermasterias imbricata) (fragment)
C;Species: Dermasterias imbricata
C;Date: 17-Jul-1994 #sequence_revision 17-Jul-1994 #text_change 09-Jul-2004
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A;Description: Differences of proteins expressed in the fruiting dikaryon and the non-fr
                                                                                                                                                                   A; Molecule type: protein A; Residues: 1-17 <EST>
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A; Accession: E59137
C; Superfamily: trypsin; trypsin homology
                                                                                      A;Cross-references: UNIPROT:Q7M433; UNIPARC:UPI0000175C3A
C;Comment: This isoform is novel in that it readily dissociates from bovine
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Pred. No. 7.7e
3; Mismatches
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Pred. No. 1.1e+04;
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2;
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pollen allergen Fes e I type A - reed fescue (fragment) C;Species: Restuca elatior (reed fescue) C;Date: 28-Apr-1993 #sequence_revision 28-Apr-1993 #tex C;Accession: C37396 R;Esch, R.E.; Klapper, D.G. Mol. Immunol. 26, 557-561, 1989
                                                                                                        RESULT 13
C37396
                                                                                                                                                                                                                                                                                                                                                                                     Histochemistry 93, 513-518, 1990
A;Title: N-terminal amino acid sequence, immunohistochemical A;Reference number: A61019; MUID:90236771; PMID:2332352
A;Accession: A61019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Rattus norvegicus (Norway rat)
C;Date: 31-Dec-1993 #sequence_revision 31
C;Accession: A61019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17K basolateral plasma membrane protein Prot17 - N_iAlternate names: Prot17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Experimental source: skeletal A;Note: sequence extracted from C;Superfamily: caldesmon
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A;Tille: Determination of the phosphorylation sites of smooth muscle A;Reference number: A44873; MUID:91378498; PMID:1898046
A;Accession: B44873
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                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: protein A; Residues: 1-17 < SCH>
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A; Residues: 1-17 < IKE>
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R;Ikebe, M.; Hornick, T.
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Pred. No. 1.1e+04;
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Pred. No. 1.1e+04
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                                                     28-Apr-1993 #text_change 25-Oct-1996
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 05-Nov-1999
C;Accession: A49635
R;Pribyl, T.M.; Campagnoni, C.W.; Kampf, K.; Kashima, T.; Handley, V.W.; McMahon, J.; Caproc. Natl. Acad. Sci. U.S.A. 90, 10695-10699, 1993
A;Title: The human myelin basic protein gene is included within a 179-kilobase transcrip A;Reference number: A49635; MUID:94068468; PMID:7504278
A;Accession: A49635
A;Catus: preliminary; translated from GB/EMBL/DDBJ
A;Rolecule type: DNA
A;Residues: 1-17 <RES>
A;Cross-references: UNIPARC:UPI000016AFAB; GB:L18862; NID:g435054; PIDN:AAA72008.1; PID:
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C30221

histone H2A.8 - chicken (fragment)
c;Species: Gallus gallus (chicken)
c;Species: Gallus gallus (chicken)
c;Apate: 02-Nov-1989 #sequence_revision 02-Nov-1989 #text_change 30-Sep-1993
C;Accession: C30221
R;Challomer, P.B.; Moss, S.B.; Groudine, M.
Mol. Cell. Biol. 9, 902-913, 1989
A;Title: Expression of replication-dependent histone genes in avian spermatids involves
A;Reference number: A30221; MUID:89261754; PMID:2471062
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-17 CCHA>
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A;Accession: C37396
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-17 <ESC:
A;Cross-references: UNIPARC:UPI000017B0DA
C;Keywords: pollen
Search completed: June 13, 2006, 01:44:16 Job time : 39 secs
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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      protein search, using sw
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Match
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Gapop 10.0 , Gapext 0.5
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1: uniprot_sprot:*
2: uniprot_trembl:*
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      BB
Q974432_DERIM
Q974A5 OERXA
P44 PERAM
Q85AH6 9PRIM
Q85AH7 HAPGR
Q85DA6 GALCR
Q85DB4 LEPRU
Q85BB4 LEPRU
Q84BB3 VARVV
Q8HB3 VARVV
Q8HB3 HAPGR
Q8HB40 HAPGR
Q8HB40 HAPGR
Q8HB4 HAPAU
Q8HQB0 HAPGR
Q8HQB MICRE
Q94NE1 EULMO
Q94NE2 MICRE
Q94NE5 CHEMA
Q94NE9 LEWCA
Q94YE9 LEWCA
Q94YE9 LEWCA
Q95SR8 DAUMA
Q95SR8 PROVE
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O61d19 rattus norv
O61ea8 xenopus lae
O7m432 dermasteria
Q9r445 oerskovia x
P82697 periplaneta
O85ah6 lepilemur e
O85ah7 hapalemur y
O85da6 galago cras
O85db4 lepilemur x
O8hb37 varecia var
O8hb37 varecia var
O8hb39 varecia var
O8hb39 hapalemur y
O8hb40 hapalemur g
O8hb40 hapalemur g
O94ne1 eulemur mon
O94ne2 microcebus
O94ne4 mirra coque
O94ne6 cheirogaleu
O94ne5 cheirogaleu
O94ne6 cheirogaleu
O94ne6 cheirogaleu
O94ne7 microcebus
O94ne7 microcebus
O94ne8 microcebus
O94ne9 lemur cort
O94y89 lemur catta
O955r6 allocebus t
O9b0v8 propithecus
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O9b0v1 propithecus
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RESULT 2 QGLEAB XENLA ID QGLEAB; AC QGLEAB; DT Q5-JUL-2004, DT O5-JUL-2004, DT O7-FEB-2006, DE Neural cell a GN Name=NCAM; OS Xenopus laeva; OS Xenopus laeva; OC Eukaryota; Maco Amphibia; Bato C Xenopodinae; OC Xenopodinae;	10 EDI : -  5 KDI	RP NUCLEOTIDE SI RP NUCLEOTIDE SI RC STRAIN-Sprags RX MEDLING-9028 RA Chen A., Rey RT "Transcriptio RT extreme 5 re RT extreme 6 re RT extreme 6 re RT extreme 6 re RT extreme 5 re RT extreme 6 re RT extreme	LDL9 RAT QGLDL9; QGLDL	33 33 34 35 37 36 37 38 37 38 37 22 22 22 22 22 22 22 22 22 22 22 22 22
NIA PRELIMINARY; PRT; 17 AA.  04, integrated into UniProtKB/TrEMBL.  04, sequence version 1.  06, entry version 5.  11 adhesion molecule (Fragment).  aevis (African clawed frog).  aevis (African clawed frog).  Batrachia; Chordata; Craniata; Vertebrata; Euteleostomi;  Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;  ae; Xenopus; Xenopus.	Conservative 1; Mismatches IWEL 16	y; bMed=1694009; bMed=1694009; keson R.A.; ation sites and structural organization of the ation sites and structural organization of the the rat neural cell adhesion molecule gene."; 3314-3324(1990).  niProt Consortium, see http://www.uniprot.org/te Creative Commons Attribution-Noberivs License 80.1; -; Genomic_DNA.  1 026 MW; AEALEBSFZ5ZE84F5 CRC64; 33.7%; Score 29; DB 2; Length 17; 71.4%; Pred, No. 1.7e+03;	PRELIMINARY; PRT; 17 AA.  04, integrated into UniProtKB/TrEMBL.  05, entry version 1.  06, entry version 6.  11 adhesion molecule (Fragment).  -C;  rvegicus (Rat). rvegicus (Rat). rvegicus (Rat). sutcheria; Buarchontoglires; Glires; Rodentia; Sciurognathi Muridae; Murinae; Rattus.  D=10116;	25.6 17 2 Q9BBT7 9PRIM Q9BBT Q9BBT propithe 25.6 17 2 Q9BBUL_AVALA Q9BBU avahi la 25.6 17 2 Q9G116—9PRIM Q9G116 eulemur 25.6 17 2 Q9G117—9PRIM Q9G116 eulemur 25.6 17 2 Q9G119—9PRIM Q9G119 eulemur 25.6 17 2 Q9G120—9PRIM Q9G119 eulemur 25.6 17 2 Q9G120—9PRIM Q9G120 eulemur 25.6 17 2 Q9G122—BULMM Q9G121 eulemur 25.6 17 2 Q9G122—BULMM Q9G122 eulemur 25.6 17 2 Q9G125—BULMM Q9G122 eulemur 25.6 17 2 Q9GA08—BULMMF Q9G122 eulemur 25.6 17 2 Q9GA08—BULMMF Q9G122 eulemur 25.6 17 2 Q9GA08—BULMMF Q9G108 eulemur 25.6 17 2 Q9GA08—BULMMF Q9G108 eulemur 25.6 17 2 Q9APG3 MICRA Q9APG4 pseudomo 25.6 17 2 Q9APG4—PSEAE Q9APG4 pseudomo 25.6 17 2 Q6G074—HHV1 Q6G074 human he ALIGNMENTS
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Q9R4A5 O PRAA5 O AC O9R4A5 O AC O9R4A5 O TO 1-MAY-2 DT 01-MAY-2 DT 07-FEB-2 DE Lytic be OS Oerskovj OC Bacterit OC Microcot OX NCBI Taa RN [1]
RP PROTEIN
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Q7M432_DERIM
ID 47M432_DERIM
AC Q7M432;
DT 15-DEC-2003, s
DT 15-DEC-2003, s
DT 15-DEC-2006, s
DE TYPDEIN (EC 3)
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Best Local
                                                            Dereskovia xanthineolytica.

Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;

Bacteria; Actinobacteria; Cellulosimicrobium.
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Q9R4A5;
Q1-MAY-2000, integrated into UniProtKB/TrEMBL
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15-DEC-2003, sequence version 1.
07-FEB-2006, entry version 6.
Trypsin (EC 3.4.21.4) 2 (Fragment).
Dermasterias imbricata (Sea star).
Eukaryota, Metazoa; Echinodermata; Eleutherozc Asteroidea; Valvatacea; Walvatida; Asterinidae NCBI TaxID=7590;
     PROTEIN SEQUENCE. MEDLINE=96250169;
                                                                                                                                       01-MAY-2000,
07-FEB-2006,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Dermasterias imbricata trypsin 1: an enzyme which the reactive-site peptide bonds of protein trypsin Biochemistry 19:124-131(1980).
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                                                                                                                    07-FEB-2006, entry version 10.
Lytic beta-1,3-glucanase (Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Estell D.A., Laskowski Jr., M.;
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MEDLINE=80109692; PubMed=7352972;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL;
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                                                    NCBI_TaxID=1710;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B61334; B61334.
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                                                                                                                                                     sequence version 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
      PubMed=8659924;
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80.0%;
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Pred. No. 1.7e+03;
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Asterinidae; Dermasterias.
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inhibitors.";
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RESULT 6
Q85AH6 9PRIM
ID Q85AH6;
POR 01-JUN-2003, in
DT 01-JUN-2003, se
DT 07-FEB-2006, en
DE Cytochrome oxid
GN Name=COLII;
OS Lepilemur edwar
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P82697;
04-MAY-2001, integrated into UniProtKB/Swiss-Prot
01-MAR-2001, sequence version 1.
07-FEB-2006, entry version 21.
Peptide hormone 4 (Pea-YLS-amide).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ferrer P., Hedegaard L., Halkier T., Diers I., Savva D., Asenjo J.A.; "Molecular cloning of a lytic beta-1,3-glucanase gene from Oerskovia xanthineolytica LLG109. A beta-1,3-glucanase able to selectively permeabilize the yeast cell wall."; Ann. N. Y. Acad. Sci. 782:555-565(1996).
                                                                              01-JUN-2003, integrated into UniProtKB/TrEMBL 01-JUN-2003, sequence version 1. 07-FEB-2006, entry version 12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Copyrighted by the UniProt Consortium, see http://www.uniprot.org/cerms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROTEIN SEQUENCE, AND WASS SPECTROMETRY.
TISSUE-Abdominal perisympathetic organs;
MEDLINE=20140865; PubMed=10676456;
Predel R., Eckert M., Holman G.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Periplaneta americana (American cockroach).
Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta;
Neoptera; Orthopteroidea; Dictyoptera; Blattaria; E
Blattidae; Blattinae; Periplaneta.
                           Cytochrome oxidase Name=COIII;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PEPTIDE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Amidation;
     Lepilemur edwardsi (Milne-Edwards's sportive lemur).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- MASS SPECTROMETRY: MW=1966.48; METHOD=MALDI; RANGE=1-17;
NOTE=Ref.1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=6978;
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1 17 Peptide hormone 4.
FFIde-PRO 000044205.
17 17 Serine amīde.
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75.0%;
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1; Mismatches
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Pred. No.
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Blattoidea;
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Matches 3
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01-JUN-2003, sequence version
07-FEB-2006, entry version 12.
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GO; GO:000
GO; GO:000
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia; Eucheria; Enarchontoglires; Primates; Strepsirhini:
Lemuridae; Hapalemur,
NCBI TaxTD-17777
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Q85AH7;
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EMBL;
GO; GC
                  EMBL; AF224575; AA037906.1; -; Genomic_DNA.
EMBL; AF224576; AA037910.1; -; Genomic_DNA.
EMBL; AF224577; AA037914.1; -; Genomic_DNA.
                                                                                                          Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                          Pastorini J., Forstner M.R.J., Martin "Phylogenetic relationships of gentle Evol. Anthropol. 11:150-154(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hapalemur griseus alaotrensis Mitochondrion.
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NON_TER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chorc
Mammalia; Eutheria; Euarc
Megaladapidae; Lepilemur.
                                                                                                                                                                                                      "A molecular approach lemurs.";
                                                                                                                                                                                                                                                 Pastorini J.,
                                                                                                                                                                                                                                                                        MEDLINE=22631663;
                                                                                                                                                                                                                                                                                                NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE.
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Pastorini J., Thalmann U., Martin R.D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE.
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L; AF24594; AAF33640.1; -; Genomic DNA.
GC:0016020; C:membrane; IEA.
GO:0005739; C:mitochondrion; IEA.
GO:0004129; F:cytochrome-c oxidase activity;
GO:0006118; F:electron transport; IEA.
erPro; IPR000298; CytC oxdse III.
THER; PTHR11403; CytC oxdse III; 1.
m. PEF01510. COY3.
  GO:0016020;
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                                                                                                                                                                                                                                              Thalmann
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  C:membrane;
                                                                                                                                                                              Sci. U.S.A. 100:5879-5884(2003)
                                                                                                                                                                                                                                                 PubMed=12719521; DOI=10.1073/pnas.1031673100;
lmann U., Martin R.D.;
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2132 MW;
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III (Fragment)
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RESULT
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Q85DA6 GALCR Q85DA6; 01-JUN-2003, 01-JUN-2003, 07-FEB-2006,

integrated into UniProtKB/TrEMBL

version

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entry version 11

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01-JUN-2003,
07-FEB-2006,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=22631663, PubMed=12719521; DOI=10.1073/pnas.1031673100; Pastorini J., Thalmann U., Martin R.D.; "A molecular approach to comparative phylogeography of extant M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9465;
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Q85DA2;
                                                                                                                                                                                 SEQUENCE
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                                                                                                                                                                                                                            Mitochondrion.
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MEDLINE=22631663; Pu
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Mammalia; Eutheria;
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GO:0004129; F:cytochrome-c oxidase
GO:0006118; F:clectron transport; I
erPro; IPR000298; CytC_oxdse_III.
THER, PTHR11403; CytC_oxdse_III; 1.
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                                                                                        Conservative
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2132 MW;
                                                                                                                                                                               2132 MW;
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                                                                                                           25.6%;
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                                                                                      Score 22; DB Pred. No. 2.8e 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 22; DB 2;
Pred. No. 2.8e+04;
                                                                                                                                                                                 CBEB69E354D98978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CBEB69E354D98978 CRC64;
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                                                                                   . 2.8e+04;
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                                                                                                                                 Length 17;
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                                                                                           Indels
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RESULT 10
Q85DB4 LEPRU
ID Q85DB4;
DT 01-JUN-2;
DT 07-FEB-2)
DT 07-FEB-2)
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DT 07-FEB-2]
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DT 01-JUN-2;
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DT 01-JUN-2;
DT 01-JUN-2;
DT 01-JUN-2;
DT 01-JUN-2;
CO Mammalia
OC Megalada
OX NCBI-Tax
RN MEDLINE=
RA PASTOYIN
RP MUCLEOTI
RX MEDLINE=
RA PASTOYIN
RT MOICE
RT 1emurs."
RL Proc. Na
RT Proc. Na
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RR GO; GO:(
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
Megaladapidae; Lepil
NCBI_TaxID=78866;
                                  EMBL; AP234596; AAP33648.1; -; Genomic_UNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0004129; F:cytochrome-c oxidase activity; IEA.
GO; GO:0006118; P:electron transport; IEA.
GO; GO:0006118; P:electron transport; IEA.
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QB5DB4;
Q1-JUN-2003, integrated into Unit
01-JUN-2003, sequence version 1.
Q7-FEB-2006, entry version 11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=22631663; PubMed=12719521; DOI=10.1073/pnas.1031673100.
Pastorini J., Thalmann U., Martin R.D.;
"A molecular approach to comparative phylogeography of extant N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cytochrome oxidase subunit III Name=COIII;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; AF224643; AAP33656.1; -; Genomic_DNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0004129; F:cytochrome-c oxidase activity; IEA.
GO; GO:0006418; P:electron transport; IEA.
InterPro; IPR000298; CytC_oxdse_III.
PANTHER; PTHR11403; CytC_oxdse_III; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=22631663; PubMed=12719521; DOI=10.1073/pnas.1031673100;
Pastorini J., Thalmann U., Martin R.D.;
"A molecular approach to comparative phylogeography of extant M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mammalia; Eutheria; Eu
Galagonidae; Otolemur.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Galago crassicaudatus (Thick-tailed Mitochondrion.
                                                                                                                                                                                                                                                                                                                                                   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mitochondrion.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Proc. Natl. Acad. Sci. U.S.A. 100:5879-5884(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytochrome oxidase subunit III (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE
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                 IPR000298; CytC_oxdse_III.
'THR11403; CytC_oxdse_III;
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42.9%;
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Pred. No. 2.8e+04;
2; Mismatches 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of extant Malagasy
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Q8HB37 11
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                                                                                                                                                                                                                                               EMBL; AF224585; AAN64789.1; -; Genomic_DNA.
EMBL; AF224586; AAN64793.1; -; Genomic_DNA.
EMBL; AF224586; AAN64797.1; -; Genomic_DNA.
EMBL; AF224587; AAN64797.1; -; Genomic_DNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:00061129; F:clycochrome-c oxidase activi
GO; GO:0006118; P:electron transport; IEA.
Interpro; IPR000298; CytC_oxdse_III.
PANTHER; PTHR11403; CytC_oxdse_III; 1.
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MEDLINE=22281620; PubMed=12393004; DOI=10.1016/S0047-2484(02)90587-7;
Pastcorini J., Forstner M.R., Martin R.D.;
Paylogenetic relationships among Lemuridae (Primates): evidence from mtDNA.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
Lemuridae; Varecia.
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01-MAR-2003, sequence version 1.
07-FBB-2006, entry version 12.
Cytochrome oxidase subunit III (Fragment)
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Mitochondrion.
NON TER 1 1
SEQUENCE 17 AA; 2132
                                                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pastorini J., Forstner M.R.J., Martin R.D.; "Phylogenetic relationships of gentle lemurs Evol. Anthropol. 11:150-154(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pastorini J., Thalmann
"A molecular approach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=22631663; PubMed=12719521; DOI=10.1073/pnas.1031673100.
Pastorini J., Thalmann U., Martin R.D.;
"A molecular approach to comparative phylogeography of extant N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Qёнв37_ VARVV
Q8нв37;
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                                                                                                                                                                                                           Mitochondrion.
                                                                                                                                                                                                                                  Pfam; PF00510; COX3;
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2; Mismatches 2
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Q8HB38 V
Q8HB38 V
AC Q9HB38 V
RESULT 13

CQBH39 HAPSI PRELIMINARY; PRT; 17 A

AC Q8HB39;
DT 01-MAR-2003, integrated into UniProtKB/TrE
DT 01-MAR-2003, sequence version 1.

DT 07-FEB-2006, entry version 12.

DE Cytochrome oxidase subunit III (Fragment).
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Best Local S
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MEDLINE=22631663; PubMed=12719521; DOI=10.1073/pnas.1031673100;
Pastorini J., Thalmann U., Martin R.D.;
"A molecular approach to comparative phylogeography of extant M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pastorini J., Forstner M.R.J., Martin "Phylogenetic relationships of gentle Evol. Anthropol. 11:150-154(2002).
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MEDLINE=22281620; PubMed=12393004; DOI=10.1016/S0047-2484(02)90587-7;
Pastcorini J., Forstner M.R., Martin R.D.;

"Phylogenetic relationships among Lemuridae (Primates): evidence from mtDNA.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Copyrighted
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QBHB38;
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Lemuridae; Varecia.
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MBL; AF224589; AAN64805.1; -; Genomic_DNA.
MBL; AF224591; AAN64813.1; -; Genomic_DNA.
MBL; AF224590; AAN64810.1; -; Genomic_DNA.
MBL; AF224592; AAN64817.1; -; Genomic_DNA.
MBL; AF224592; AAN64817.1; -; Genomic_DNA.
O; GO:0016020; C:membrane; IEA.
O; GO:0016020; C:membrane; IEA.
O; GO:0004129; F:cytochrome-c oxidase_activi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GO:0006118; P:electron transport; IEA.
erPro; IPR000298; CytC_oxdse_III.
IHER; PTHR11403; CytC_oxdse_III; 1.
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Attribution-NoDerivs License
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2.8e+04;
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EMBL; AF224584; AAN64785.1; -; Genomic_DN
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0004129; F:Cytochrome-c oxidase ac
GO; GO:0006118; P:electron transport; IEA
InterPro; IPR000298; CytC_oxdse_III.
PANTHER; PTHR11403; CytC_oxdse_III; 1.
                                                                                                                                                    01-MAR-2003, integrace version 01-MAR-2003, sequence version 07-FEB-2006, entry version 12.
NUCLEOTIDE SEQUENCE.

MEDLINE=22281620; Pubmed=12393004; DOI=10.1016/S0047-2484(02)90587-7;
Pastorini J., Forstner M.R., Martin R.D.;
"Phylogenetic relationships among Lemuridae (Primates): evidence from mtDNA.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Euarchontoglires; Primates; Stra Lemuridae; Hapalemur.
                                                                     Lemuridae; Hapalemur.
NCBI_TaxID=122221;
                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                         Mitochondrion.
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MEDLINE=22281620; PubMed=12393004; DOI=10.1016/S0047-2484(02)90587-7;
Pastorini J., Forstner M.R., Martin R.D.;
"Phylogenetic relationships among Lemuridae (Primates): evidence from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=122223;
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                                                                                                                                   Hapalemur
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                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Thalmann
                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Greater bamboo lemur)
                                                                                                                                                                                                                                                                                     8
                                                                                                                                     occidentalis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PubMed=12719521; DOI=10.1073/pnas.1031673100;
lmann U., Martin R.D.;
                                                                                                                                                                                                                                                                                                                                                                                    2132 MW;
                                                                                               Chordata; Craniata;
Euarchontoglires; Pr
                                                                                                                                                                                                                                                                                                                                                25.6%;
42.9%;
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                                                                                                                                                                                                                                                                                                                                     Score 22; DB
Pred. No. 2.86
2; Mismatches
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                                                                                                                                                             (Fragment)
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                                                                                                 Primates;
                                                                                                                                                                                                                         17
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                                                                                                            Vertebrata;
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                                                                                                                                                                                                                                                                                                                                                                                      CRC64;
                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                 Strepsirhini,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Strepsirhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IEA.
                                                                                                            Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of extant Malagasy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Euteleostomi;
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Hum. Evol. 43:463-478(2002).

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RESULT 15
Q8HB41 HAPAU
ID OSHB41;
DT 01-MAR-2;
OC Ewaryot.
OC Mammalia
OC Lemurida
OC Lem
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OHB41 HAPAU PRELIMINARY; PKI; 1, 27. Q8HB41; 01-MAR-2003, integrated into UniProtKB/TrEMBL. 01-MAR-2003, sequence version 1. 07-FEB-2006, entry version 12. Q7-FEB-2006, entry version 12.
                                           MEDLINE=22631663; PubMed=12719521; DOI=10.1073/pnas.1031673100;
Pastorini J., Thalmann U., Martin R.D.;
"A molecular approach to comparative phylogeography of extant Malagasy
                                                                                                                                                                                     Pastorini J., Forstner M.R.J., Martin "Phylogenetic relationships of gentle Evol. Anthropol. 11:150-154(2002).
                                                                                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
MEDLINE=22281620; PubMed=12393004; DOI=10.1016/S0047-2484(02)90587-7;
Pastcorini J., Forstner M.R., Wartin R.D.;
"Phylogenetic relationships among Lemuridae (Primates): evidence from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Strepsirhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cytochrome oxidase subunit III (Fragment). Name=COIII;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GG; GG:0004129; F:cytochrome-c oxidase activity; IEA.
GG; GG:0006118; P:electron transport; IEA.
InterPro; IPR000298; CytC_oxdse_III.
PANTHER; PTHR11403; CytC_oxdse_III; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8888
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EMBL; AF224579; AAN64769.1; -; Genomic_DNA.
EMBL; AF224580; AAN037918.1; -; Genomic_DNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005739; C:mitochondrion; IEA.
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Pastorini J., Thalmann U., Martin R.D.;
"A molecular approach to comparative phylogeography of extant Malagasy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pastorini J., Forstner M.R.J., Martin R.D.; "Phylogenetic relationships of gentle lemurs Evol. Anthropol. 11:150-154(2002).
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                                                                                                                                 NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=122222;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lemuridae; Hapalemur.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hapalemur aureus (Golden bamboo lemur).
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                          lemurs.";
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                                                                                                                                                                                                                                                                                                                                     Hum. Evol. 43:463-478(2002).
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                                                                                                         PubMed=12719521; DOI=10.1073/pnas.1031673100;
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2132 MW;
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Pred. No. 2.8e+04;
2; Mismatches 2
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                                                                                                                                                                                                                      1 R.D.;
lemurs
                                                                                                                                                                                                                      (Hapalemur).";
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GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0004129; F:cytochrome-c oxidase activity; IEA.
GO; GO:0006118; P:electron transport; IEA.
InterPro; IPR000298; CytC_oxdse_III.
PANTHER; PTHR11403; CytC_oxdse_III; 1.
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                                                                                                                        Mitochondrion.
                                                                                                                                      Pfam; PF00510; COX3;
                                                                                                                                                                                                                                                                                                     Proc. Natl. Acad. Sci. U.S.A. 100:5879-5884(2003).
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                                                                                                  2132 MW;
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Search Job tim time : 293 secs completed: June 13, 2006, 01:32:34

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Result
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re greater than or equal to the score of the result being printed,
is derived by analysis of the total score distribution.
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1: /BMC Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*

4: /BMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*

6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*

7: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
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Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2006 Biocceleration Ltd
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US-09-695-769B-229
US-09-490-153-229
US-09-490-153-229
US-08-635-928-33
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US-08-614-479-14
US-08-614-479-14
US-08-614-479-14
US-08-614-479-14
US-08-614-479-14
US-09-181-083-52
US-09-638-705-71
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Sequence 14, Appli
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US-08-569-188-14	US-08-569-188-4	US-08-105-416-29	US-08-076-092-10	5266328-7	PCT-US94-05684-14	PCT-US94-02631-24	PCT-US91-05177-2	US-09-428-082B-204	US-08-753-750B-55	US-08-751-305-18	US-08-497-599-13	US-08-485-508-116	US-08-741-599-3	US-08-438-883-3	US-08-704-170-24	US-08-438-759-14	US-08-370-567-14	US-08-241-054-116
Sequence 14, Appl	Sequence 4, Appli	Sequence 29, Appl	Sequence 10, Appl	Patent No. 5266328	Sequence 14, Appl	Sequence 24, Appl	Sequence 2, Appli			Sequence 18, Appl		Sequence 116, App	Sequence 3, Appli	Sequence 3, Appli	Sequence 24, Appl	Sequence 14, Appl	Sequence 14, Appl	Sequence 116, App

#### ALIGNMENTS

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Sequence 14, Application US/09853253
Patent NO. 6897266
GENERAL INFORMATION:
APPLICANT: JASPERS, STEPHEN
APPLICANT: SHEPPARD, PAUL
APPLICANT: BISHOP, PAUL
APPLICANT: BISHOP, PAUL
TITLE OF INVENTION: Zsig33-like Peptides
                                                PATENT NO. 5908828

GENERAL INFORMATION:
APPLICANT: Kurita, Takashi
APPLICANT: Matsumoto, Tomoaki
APPLICANT: Kikuno, Reiko
APPLICANT: Breipohl, Gerhard
TITLE OF INVENTION: Synthetic Peptide De:
TITLE OF INVENTION: Salts Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
"""Ches 3; Conserv
                                                                                                                                                                                                                                                                                       RESULT 2
US-08-497-599-5
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US-09-853-253-14
                                                                                                                                                                                                                                         Sequence 5, App....
Sequence 5, App....
No. 5908828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 14
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT FILING DATE: 2001-05-10 PRIOR APPLICATION NUMBER: 60/203,300 PRIOR FILING DATE: 2000-05-11 NUMBER OF SEQ ID NOS: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 00-30
CURRENT APPLICATION NUMBER: US/09/853,253
CURRENT FILING DATE: 2001-05-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
STREET: 1300 I. Street, N.W., Suite 700
                  ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & ADDRESSEE: Dunner
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Pred. No. 3.4e+02;
3; Mismatches 0
                                                                                                                  Derivatives
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RESULT 4
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; INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-497-599-5
                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: ASSAÉ Friedler
APPLICANT: ASSAÉ Friedler
APPLICANT: Chaim Gilon
APPLICANT: Chaim Gilon
APPLICANT: Ammon Wolf
TITLE OF INVENTION: Inhibition of Nuclear Impo
FILE REFERENCE: 2254-019-999
CURRENT APPLICATION NUMBER: US/09/564,677A
CURRENT APPLICATION NUMBER: 122343
PRIOR APPLICATION NUMBER: 122343
PRIOR APPLICATION NUMBER: PCT/IL98/00577
PRIOR APPLICATION NUMBER: PCT/IL98/00577
PRIOR APPLICATION NUMBER: PCT/IL98/00577
PRIOR APPLICATION NUMBER: PCT/IL98/00577
PRIOR FILLING DATE: 1999-11-26
NUMBER OF SEQ ID NOS: 20
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 18
LENGTH: 17
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                                                                                                                                                                                                                   ; ORGANISM: Human Immunodeficiency Virus (HIV-1) US-09-564-677A-18
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Best Local Similarity 28.6
Conservative
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Best Local :
                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Toohey, Kimberlin M.
REGISTRATION NUMBER: 35,391
REFERENCE/DOCKET NUMBER: 02481.1451-00000
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
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FILING DATE: 30-JUN-1995
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE:
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                                                                                                                                             Similarity 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Inhibition of Nuclear Import by Backbone Cyclic Peptide Analogs
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Pred. No. 7.5e+02;
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CURRENT APPLICATION NUMBER: US/09/845,160
CURRENT FILING DATE: 2001-05-01
PRIOR APPLICATION NUMBER: JP 2001-131688
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: JP 2000-161577
PRIOR FILING DATE: 2000-05-31
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 4
LENGTH: 17
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Best Local Similarity
Matches 3; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT; ORGANISM: Artificial Sequence; PEATURE: INFORMATION: Description of Artificial Sequence: Peptide having; OTHER INFORMATION: affinity with E-selectin.
US-09-845-160-4
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                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 1993-10-06
NUMBER OF SEQ ID NOS: 64
SOFTWARE: PatentIn version 3.1
SEQ ID NO 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 40, Application US/09695437A Patent No. 6803203 GENERAL INFORMATION:
                                       Matches
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                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: BSA 01-02
CURRENT APPLICATION NUMBER: US/09/695,437A
CURRENT FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/398,139
PRIOR FILING DATE: 1995-03-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Brookhaven Science Associates
APPLICANT: Anderson, Carl W
APPLICANT: Connelly, Margery A
TITLE OF INVENTION: DNA-PK Assay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: MIZUGUCHI, HIROYUKI
APPLICANT: HAYAKAWA, TAKAO
TITLE OF INVENTION: ADENOVIRUS VECTOR
                                                                                                                         NAME/KEY: MISC_FEATURE
LOCATION: (1)..(4)
OTHER INFORMATION: human hsp90 residues 1-4
NAME/KEY: MISC_FEATURE
LOCATION: (5)..(17)
OTHER INFORMATION: human p53 residues 15-27 with S20E substitution
                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 08/132,284
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                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                     LENGTH:
                                 Local Similarity
nes 6; Conserv
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                                                        28.5%;
75.0%;
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                                                        Score 24.5;
Pred. No. 1.
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Pred. No. 1.1e+03;
                                       Mismatches
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                                                        5; DB 2;
1.4e+03;
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RESULT 7
US-09-490-070A-229
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US-09-025-769B-229
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                                                                                                                                                                                 Patent No. 6696248
GENERAL INFORMATION:
                                                                                                                                                                                                                       Sequence 229, Application US/09490070A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Knappi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: EP 95 11 3021.0 FILING DATE: 18-AUG-1995 ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr., Esq. REGISTRATION NUMBER: 27,794 REFERENCE/DOCKET NUMBER: MORPHO/5 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/025,769B
FILING DATE: 18-FEB-1998
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
Adnes F. Haley, Jr., Esq. c/o Fish & Neave STREET: 1251 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Ge, Liming
APPLICANT: Moroney, Simon
APPLICANT: Plueckthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
NUMBER OF SEQUENCES: 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                     y Match 27.9%;
Local Similarity 43.8%;
hes 7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ENGTH:
                                    Moroney, Simon
PlueCkthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
NUMBER OF SEQUENCES: 373
                                                                                                                                                                 APPLICANT: Knappik, Achim
                                                                                                                                                                                                                                                                                                                                                    3 ARSM----GGKEDLIW 14
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(212)596-9090
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Ilag, Vic
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Ilag, Vic
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Colin G. Sandercock, Esq. c/o Heller Ehrman
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Pred. No. 1.7e+03;
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US-09-490-153-229
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GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 229:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        y Match 27.9%;
Local Similarity 43.8%;
hes 7; Conservative
COUNTRY: USA

ZIP: 10021

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/490,153

FILING DATE: 24-Jan-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: BP 95 11 3021.0
PILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: Colin G. Sandercock, Esq.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/490,070A FILING DATE: 24-Jan-2000 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave STREET: 1251 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein FRAGMENT TYPE: internal SEQUENCE DESCRIPTION: SEQ ID NO: 229:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37629-0005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 912-2000
                                                                                                                                                                                                                                                                                                                        Moroney, Simon
Plueckthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
NUMBER OF SEQUENCES: 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Knappik, Achim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin. Release #1.0, Version #1.30 (EPO)
                                                                                                                                                                                                                   STATE: New York
                                                                                                                                                                                                                                         CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: D.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 1666 K Street, N.W., Suite 300 CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                           Ge, Liming
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Pred. No. 1.7e+03;
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APPLICATION NUMBER: US/09/025,769B
FILING DATE: 18-FEB-198
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:

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US-09-490-324-229
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 229, Applicat Patent No. 6828422 GENERAL INFORMATION:
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Best Local Similarity
INFORMATION
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                              APPLICATION NUMBER: US/09/490,324
FILING DATE: 24-Jan-2000
PRIOR APPLICATION NUMBER: US/09/025,769
FILING DATE: 18-FEB-1998
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-FUB-1995
ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr., Esq.
REGISTRATION NUMBER: 27,794
REPERENUE, DOCKET NUMBER: MORPHO/5
TELEPOMONION: (212)596-9000
TELEPOMONICATION INFORMATION:
TELEPHONE: (212)596-9000
                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
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REFERENCE/DOCKET NUMBER: MORPHO/5
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)596-9000
                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Moroney, Simon
Plueckthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave STREET: 1251 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ARSM----GGKEDLIW 14
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nilarity 43.8%;
Conservative
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  (212)596-9090
Q ID NO: 229:
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Pred. No. 1.7e+03;
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                                                                                                                                                CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/DE94/01302
FILING DATE: 10/27/94
APPLICATION NUMBER: P4337599.5
FILING DATE: 11/01/93
ATTORNEY/AGENT INFORMATION:
NAME: MOLANO, Michael A.
REGISTRATION NUMBER: 39,777
REFERENCE/DOCKET NUMBER: WBLT2010 (WO/US)
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APPLICANT: CONRAD
APPLICANT: DINKEL
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MEDIUM TYPE: Diskette
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS
SOFTMARE: Wordberfect 7.0
CURRENT APPLICATION DATA:
                                                                           TELEFAX: 415-362-2928 INFORMATION FOR SEQ ID NO:
                 SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
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APPLICANT: SCHIER, HANS MARTIN

APPLICANT: SCHIER, HANS MARTIN

APPLICANT: SCHUEIDER-MERGENER, JENS

TITLE OF INVENTION: METAL-BINDING CYSTEIN-FREE

TITLE OF INVENTION: PEPTIDES FOR DIAGNOSTIC AND

TITLE OF INVENTION: METHODS FOR THEIR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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ADDRESSEE: FLIESLER, DUBB, MEYER & LOVEJOY LLP
STREET: Four Embarcadero Center, Suite 400
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STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                      FILING DATE: 09/20/96
                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                             TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: protein FRAGMENT TYPE: internal SEQUENCE DESCRIPTION: SEQ ID NO: 229:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 17 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
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ERBER, SEBASTIAN
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Pred. No. 1.7e+03;
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US-08-635-928-33
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                                                                                                                            TELEFAX: 415-362-2928
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/
FILING DATE: 09/20/96
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT
FILING DATE: 10/27/94
APPLICATION NUMBER: P43
FILING DATE: 11/01/93
                                                                                                                                                                                      FILING DATE: 11/01/93
ATTORNEY/AGENT INFORMATION:
NAME: MOLANO, Michael A.
REGISTRATION NUMBER: 39,777
REFERENCE/DOCKET NUMBER: WBL7
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS: DUBB, MEYER & LOVEJOY LLP
ADDRESSEE: FLIESLER, DUBB, MEYER & LOVEJOY LLP
STREET: Four Embarcadero Center, Suite 400
CITY: San Francisco
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APPLICANT:
APPLICANT:
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ORIGINAL SOURCE:
                           TOPOLOGY: line MOLECULE TYPE: p
                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC Compatible OPERATING SYSTEM: MS-DOS SOFTWARE: Wordberfect 7.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 94111
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: SCHNEIDER-MERGENER, JENS
TITLE OF INVENTION: METAL-BIDES FOR DIAGNOSTIC AND
TITLE OF INVENTION: THERAPPUTICAL PURPOSES,
TITLE OF INVENTION: METHODS FOR THEIR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                          LENGTH: 17 amino acids
TYPE: amino acid
TYPE: single
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE:
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Local Similarity 37.5%;
les 6; Conservari...
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SCHIER, HANS MARTIN
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ERBER, SEBASTIAN
FROMMEL, CORNEIUS
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internal
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                                                                                                                                                                                                            WBLT2010 (WO/US)
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Pred. No. 2e+03;
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US-08-382-013A-9
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US-08-333-565-14
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                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (415) 325-212 INFORMATION FOR SEQ ID NO: 1/SEQUENCE CHARACTERISTICS: LENGTH: 17 amino acids TYPE: amino acid
                                                                                                            Sequence 9, Application US/08382013A
Patent No. 5631222
                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 14, Application US/08333565
Patent No. 5622852
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 37.5 Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                GENERAL INFORMATION:
APPLICANT: Shibat
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APPLICANT: KORSME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Smith, william M
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 15726A-000700
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: Bcl-x/Bcl
TITLE OF INVENTION: REGULATOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOWINGER AND TO LYTTON Avenue CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: size TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/333,565
FILING DATE: 31-OCT-1994
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                         4 RONGGWED 11
                                                                                                                                                                                                                                       4 RSMGGKED 11
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Shibata, Kenji
Suzawa, Toshiyuki
Yamasaki, Motoo
Tanaka, Takeo
Tsukuda, Eiji
Yamada, Koji
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(415) 326-2422
--- TD NO: 14:
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62.5%;
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                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                      Score 23; DB 1;
Pred. No. 2.5e+03;
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APPLICANT: Ohno, Te TITLE OF INVENTION: NUMBER OF SEQUENCES:

Ohno, Tetsuj:

Endothelin-Antagonizing Peptide

CORRESPONDENCE ADDRESS

White & Case

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RESULT 14
US-08-321-625-52
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Best Local Similarity
Matches 3; Conserv
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                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compactible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/382,013A
FILING DATE: 10-FEB-1995
ZIP: 22209
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: JP 155031/93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: JP 155
FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Lippert, Nels T.
REGISTRATION NUMBER: 25888
                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: ANTONELLI
                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                              APPLICANT:
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                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                            APPLICANT:
                                           CITY: Arlington
STATE: VA
COUNTRY: USA
                                                                                            STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
STREET: 1
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Y: U.S.A.
                                                                                                                                                             INVENTION:
                                                                                            E: ANTONELLI, TERRY, STOUT & KRAUS
1300 No. 5639860th Seventeenth Street, Suite 1800
                                                                                                                                                                                        KAWAMOTO, Isao
TSUKUDA, Eiji
YOSHIDA, Mayumi
BANDO, Chieko
YAMAGUCHI, Kazuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1155 Avenue of the Americas
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                                                                                                                                                          MATSUDA, Yuzuru
VENTION: ENDOTHELIN-ANTAGONIZING PEPTIDE
                                                                                                                                                                                                                                                                        MAKINO, Mika
CHIBA, Shigeru
                                                                                                                                                                                                                                                                                                        TANAKA, Ta
Floppy disk
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75.0%;
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Pred. No. 2.
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2.5e+03;
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US-08-661-479-14
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Patent No. 5834209
GENERAL INFORMATION:
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                                                                                                  APPLICATION NUMBER: US/08/661,479
FILING DATE: 11-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/333,565
FILING DATE: 31-OCT-1994
ATTORNEY/ACENT INFORMATION:
NAME: Smith, William M
REGISTRATION NUMBER: 30,223
REGISTRATION NUMBER: 30,223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 703-312-6666
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acide
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: TERRY, David T.
REGISTRATION NUMBER: 20,178
                                                                   REFERENCE/DOCKET NUMBER: 15
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: Bcl-x/Bcl
TITLE OF INVENTION: REGULATOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 50
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-312-6600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 379 Lytton Avenue CITY: Palo Alto STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity nes 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/321,625 FILING DATE: 12-OCT-1994 CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 17 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
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                                                  TELEPHONE:
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                                  : (415) 326-2400
(415) 326-2422
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KORSMEYER, Stanley J.
ENTION: Bcl-x/Bcl-2 ASSOCIATED CELL DEATH
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NO
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75.0%;
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Pred. No. 2.
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TYPE: amino acid

STRANDENESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-661-479-14

Query Match
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

A RAMGGKED 11

Db 4 RONGGWED 11

Search completed: June 13, 2006, 01:45:09

Job time: 49 secs
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Run
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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   Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score
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                                    28.5
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Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              June 13, 2006, 01:59:24; Search time 66 Seconds (without alignments) 119.313 Million cell updates/sec
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86
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1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
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                                    31.4
30.2
30.2
30.2
29.1
29.1
29.1
29.1
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27.9
27.9
27.9
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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Sequence
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295, Appli

14, Appli

15, Appli

163, Appli

164, Appli

165, Appli

 9, Appli
92, Appl
157, Appl
10, Appl
10, Appl
70, Appl
70, Appl
251, App
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ALIGNMENTS

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APPLICANT: Dade Behring Marburg GmbH
TITLE OF INVENTION: Carbohydrate deficient transferrin (CD'
TITLE OF INVENTION: antibodies, their preparation and use
FILE REFERENCE: 2002/B001
CURRENT APPLICATION NUMBER: US/10/612,162
CURRENT FILING DATE: 2003-07-03
PRIOR APPLICATION NUMBER: 10230550.1
PRIOR APPLICATION NUMBER: 10230550.1
PRIOR FILING DATE: 2002-07-05
PRIOR FILING DATE: 2003-05-19
NUMBER OF SEG ID NOS: 4
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                     RESULT 2
US-10-801-990-7
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US-10-612-162-1
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NUMBER OF SEQ ID NOS: 395
SOFTWARE: PatentIn version 3.2
SEQ ID NO 7
                                                                                                                                                                                                                                                                                 Sequence 7, Application US/10801990 Publication No. US20050048574A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                 FILE REFERENCE: SURR.121
CURRENT APPLICATION NUMBER: US/10/801,990
CURRENT FILING DATE: 2004-03-15
PRIOR APPLICATION NUMBER: US 60/455,037
PRIOR FILING DATE: 2003-03-14
                                                                                                                                                                                     APPLICANT: Kantor, Aaron B.
APPLICANT: Schulman, Howard
APPLICANT: Becker, Christopher
TITLE OF INVENTION: BIOMARKERS FOR RHEUMATOID ARTHRITIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 17
TYPE: PRT
ORGANISM: Homo sapiens
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17; Conserv
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APPLICANT: Wangman Ge Meyrick Morrison
APPLICANT: Karen Jane Meyrick Morrison
APPLICANT: Robert Kendall Morrison
APPLICANT: Pia M. Challita-Eid
TITLE OF INVENTION: NUCLEIC ACID AND CORRESP
TITLE OF INVENTION: ENTITLED 16192F10B USEF
TITLE OF INVENTION: CANCER
FILE REFERENCE: 51158-20062.20
CURRENT FAPLICATION NUMBER: US/10/291,241
CURRENT FILING DATE: 2003-03-18
PRIOR APPLICATION NUMBER: US 10/005,480
PRIOR FILING DATE: 2001-11-07
PRIOR APPLICATION NUMBER: US 10/062,109
PRIOR FILING DATE: 2002-01-31
PRIOR APPLICATION NUMBER: US 60/282,739
PRIOR APPLICATION SERVING NUMBER: US 60/282,739
PRIOR APPLICATION NUMBER: US 60/282,739
PRIOR APPLICATION SERVING NUMBER: US 60/282,739
PRIOR FILING DATE: 2001-04-10
SEQ ID NO 85
LENGTH: 17
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Sequence 295, Application US/10356257
Publication No. US20040087767A1
GENERAL INFORMATION:
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                                                APPLICANT: LAZARUS, ROBERT A.
APPLICANT: MAUN, HENRY R.
APPLICANT: MAUN, HENRY R.
TITLE OF INVENTION: FVIII Antagonists
FILE REFERENCE: P1950R1
CURRENT APPLICATION NUMBER: US/10/356,257
CURRENT FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: US 60/355,420
PRIOR FILING DATE: 2002-02-06
NUMBER OF SEQ ID NOS: 355
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Matches
SEQ ID NO 295
LENGTH: 17
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APPLICANT: Agensys, Inc.
APPLICANT: Aya Jakobovits
APPLICANT: Arthur B. Raitano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local Similarity 50.0%;
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F: Pia M. Challita-Eid
INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rene S. Hubert
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 30; DB 4;
Pred. No. 6.8e+02;
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CURRENT APPLICATION NUMBER: US/09/853,253
CURRENT FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: 60/203,300
PRIOR FILING DATE: 2000-05-11
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 14
LENGTH: 17
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Best Local Similarity
Watches 3; Conserve
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US-09-853-253-14
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US-09-798-116-23
                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Verhagen, Anne Marie
APPLICANT: Verhagen, Anne Marie
APPLICANT: Ekert, Paul
APPLICANT: Vaux, David
TITLE OF INVENTION: NO. US20020110851A1el Polypeptides, Modulatory Agents Therefor
TITLE REFERENCE: 10338-004US
CURRENT APPLICATION NUMBER: US/09/798,116
CURRENT APPLICATION NUMBER: US/09/798,116
CURRENT FILING DATE: 2001-03-02
CURRENT FILING DATE: 2001-03-02
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Best Local Similarity
"hes 6; Conserv
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Patent No. US20020055156A1
GENERAL INFORMATION:
                                                                                                                                                NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn version 3.0
SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23, Application US/09798116 Patent No. US20020110851A1
                                                                                                                                                                                               CURRENT FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: AU PQ5995/00
PRIOR FILING DATE: 2000-03-02
NUMBER OF STATE: 2000-03-02
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TITLE OF INVENTION: Zsig33-like Peptides
FILE REFERENCE: 00-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: JASPERS, STEPHEN
APPLICANT: SHEPPARD, PAUL
APPLICANT: DEISHER, THERESA
                                                                         TYPE: PRT
ORGANISM: synthetic
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial sequence FEATURE:
             LOCATION: (1). (1)
OTHER INFORMATION: M is methionine sulfoxide
                                               NAME/KEY: misc_feature
                                                                                                                                  LENGTH:
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Pred. No. 1.5e+03;
3; Mismatches (
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Pred. No. 1
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Query Match

32.6%;

Score 28;

DB 3;

Length 17;

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PRIOR APPLICATION NUMBER: US/09/853,253
PRIOR APPLICATION NUMBER: US/09/853,253
PRIOR FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: 60/203,300
PRIOR FILING DATE: 2000-05-11
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 14
                                                                                                                                 APPLICANT: McCright, Brenton
APPLICANT: Lakowski, Bernard
TITLE OF INVENTION: CCK-2 NUCLEIC ACIDS, POLYPEPTIDES, AND USES THEREOF
FILE REFERENCE: 11202-006-999
CURRENT APPLICATION NUMBER: US/10/349,507
CURRENT FILING DATE: 2003-01-22
PRIOR APPLICATION NUMBER: 10/312,187
PRIOR APPLICATION NUMBER: ECT/CA01/00913
PRIOR FILING DATE: 2001-06-20
PRIOR APPLICATION NUMBER: 60/213,174
PRIOR APPLICATION NUMBER: 60/213,174
PRIOR APPLICATION NUMBER: 60/254,932
PRIOR APPLICATION NUMBER: 60/254,932
PRIOR PILING DATE: 2000-06-2
PRIOR APPLICATION NUMBER: 60/254,932
PRIOR PILING DATE: 2000-012-13
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US-10-921-371-14
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US-10-921-371-14
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APPLICANT: JASPERS, STEPHEN
APPLICANT: SHEPPARD, PAUL
APPLICANT: DEISHER, THERESS
APPLICANT: BISHOP, PAUL
                                                               SEQ ID NO 15
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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Matches 3; Conserv
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ORGANISM: Homo sapiens -10-349-507-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Hekimi , Siegfried
APPLICANT: Jiang , Ning
APPLICANT: Benard, Claire
APPLICANT: Kebir , Hania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: SHEPPARD, PAUL
APPLICANT: DEISHER, THERESA
APPLICANT: BISHOP, PAUL
TITLE OF INVENTION: Zsig33-like Peptides
FILE REFERENCE: 00-30
CURRENT APPLICATION NUMBER: US/10/921,371
CURRENT FILING DATE: 2004-08-19
                                                                                                  NUMBER OF SEQ ID NOS: 41
SOFTWARE: PatentIn versi
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TYPE: PRT
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50.0%;
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Pred. No. 1.5e+03;
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Query Match
Best Local Similarity
"---hes 5; Conservi
                                                                                                                                                                                                                                                                                                 RESULT 10
US-10-356-257-263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Homo sapiens US-10-267-565-15
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US-10-267-565-15
CURRENT APPLICATION NUMBER: US/10/356,257
CURRENT FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: US 60/355,420
PRIOR FILING DATE: 2002-02-06
NUMBER OF SEQ ID NOS: 355
SEQ ID NO 263
LENGTH: 17
                                                                                                                                                                 Sequence 263, Application US/10356257
Publication No. US20040087767A1
GENERAL INFORMATION:
APPLICANT: LAZARUS, ROBERT A.
APPLICANT: MAUN, HENRY R.
TITLE OF INVENTION: EVIIA Antagonists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 15
LENGTH: 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 1990-05-09
PRIOR APPLICATION NUMBER: 07/455,708
PRIOR FILING DATE: 1989-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 08/205,011
PRIOR FILING DATE: 1994-03-02
PRIOR APPLICATION NUMBER: 07/857,023
PRIOR FILING DATE: 1992-03-24
PRIOR APPLICATION NUMBER: 07/572,284
PRIOR APPLICATION NUMBER: 07/572,284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/267,565
CURRENT FILING DATE: 2003-01-23
PRIOR APPLICATION NUMBER: 09/401,839
PRIOR FILING DATE: 1999-09-22
PRIOR APPLICATION NUMBER: 08/459,151
PRIOR FILING DATE: 1995-06-02
PRIOR FILING DATE: 1995-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: PURIFICATION AND CHARACTERIZATION TITLE OF INVENTION: LYMPHOCYTE MATURATION FACTOR AND TITLE OF INVENTION: ANTIBODIES THERETO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Gately, Maurice
APPLICANT: Gubler, Ulrich
APPLICANT: Hulmes, Jeffery
APPLICANT: Podlaski, Frank
                                                                                                                                                      FILE REFERENCE: P1950R1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 1990-08-27
PRIOR APPLICATION NUMBER: 07/520,935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: 11126-005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9 KEDLIW 14
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5; Conserv
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Pred. No. 2.2e
0; Mismatches
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Pred. No. 2.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 4; 1
2.2e+03;
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; OTHER INFORMATION: sequence is synthesized US-10-356-257-243
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                                                                                                                                                                                                                                                                                                                                 US-10-356-257-243
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                                                                                                                                                                                                                                                                                                                                                   RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: peptide from nef pool 1 US-11-008-653-145
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                                                                  NUMBER OF SEQ ID NOS: 355
SEQ ID NO 243
LENGTH: 17
TYPE: PRT
                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: LAZARUS, ROBERT A.
APPLICANT: MAUN, HENRY R.
TITLE OF INVENTION: FVIIA Antagonists
                                                                                                                                                                                                                                                                                               Sequence 243, Appropriate Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOPTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Schneider, Joerg
TITLE OF INVENTION: HIV Pharmaccines
FILE REFERENCE: 3742.1001-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local 9
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Best Local
                                                                                                                                     FILE REFERENCE: P1950R1
CURRENT APPLICATION NUMBER: US/10/356,257
CURRENT FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: US 60/355,420
PRIOR FILING DATE: 2002-02-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: GB 0322637.0 PRIOR FILING DATE: 2003-09-26 PRIOR APPLICATION NUMBER: GB 0322402.9 PRIOR FILING DATE: 2003-09-24 NUMBER OF SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/11/008,653
CURRENT FILING DATE: 2004-12-09
PRIOR APPLICATION NUMBER: PCT/GB2004/004038
PRIOR FILING DATE: 2004-09-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: GB 0325011.5 PRIOR FILING DATE: 2003-10-27
                                ORGANISM: Artificial sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence FEATURE:
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KEVLVWK 14
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Pred. No. 3.3e+03;
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Pred. No. 3.3e+03;
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; OTHER INFORMATION: Description of Artificial Sequence: Peptide having ; OTHER INFORMATION: affinity with E-selectin. US-09-845-160-4
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                                                                                                                                                                     PILE REFERENCE: 1700.0360001

CURRENT APPLICATION NUMBER: US/10/289,454

CURRENT FILING DATE: 2003-02-10

PRIOR APPLICATION NUMBER: US 60/396,636

PRIOR PILING DATE: 2002-07-19

PRIOR APPLICATION NUMBER: PCT/1802/00166

PRIOR FILING DATE: 2002-01-21

PRIOR FILING DATE: 2002-01-21

PRIOR APPLICATION NUMBER: US 10/050,902

PRIOR APPLICATION NUMBER: US 60/331,045

PRIOR FILING DATE: 2001-11-07

PRIOR FILING DATE: 2001-11-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-289-454-376
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; OTHER INFORMATION: CepsilonH3 foreward US-10-289-454-376
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Patent No. US20020058045A1
GENERAL INFORMATION:
APPLICANT: MIZUGUCHI, HIROYUKI
APPLICANT: HAYAKAWA, TAKAO
TITLE OF INVENTION: ADENOVIRUS VECTOR
FILE REFERENCE: 081356/0163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 17
TYPE: PRT
                                                                                                                NUMBER OF SEQ ID NOS: 386
SOFTWARE: PatentIn version 3.2
SEQ ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 376, Application US/10289454 Publication No. US20030157479A1
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CURRENT FILING DATE: 2001-05-01
PRIOR APPLICATION NUMBER: JP 2001-131688
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: JP 2000-161577
PRIOR FILING DATE: 2000-05-31
                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Jennings, Gary
APPLICANT: Sonderegger, Ivo
TITLE OF INVENTION: Antigen Arrays for Treatments of Allergic Eosinophilic Diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Bachmann, Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence FEATURE:
                                                       TYPE: PRT
ORGANISM: Artificial Sequence
                                      FEATURE:
                                                                                             ENGTH:
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3; Conserva
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Pred. No.
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Pred. No. 4e+03;
2; Mismatches
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APPLICANT: Maurer, Patrick
APPLICANT: Maurer, Patrick
APPLICANT: Pellicioli, Erica
CURRENT FILING DATE: 1700.0290003
CURRENT FILING DATE: 2003-01-17
PRIOR APPLICATION NUMBER: 60/396,590
PRIOR FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/393,725
PRIOR APPLICATION NUMBER: 60/393,725
PRIOR APPLICATION NUMBER: 60/399,898
PRIOR APPLICATION NUMBER: 60/389,898
PRIOR APPLICATION NUMBER: PCT/IB02/00166
PRIOR APPLICATION NUMBER: PCT/IB02/00166
PRIOR APPLICATION NUMBER: DO2-01-21
PRIOR APPLICATION NUMBER: 10/050,902
PRIOR APPLICATION NUMBER: 10/050,902
PRIOR APPLICATION NUMBER: DO50,902
PRIOR FILING DATE: 2002-01-18
NUMBER OF SEQ ID NOS: 164
SOFTWARE: Patentin version 3.1
SEQ ID NO 157
CHURTH INFORMATION: Oliconological de prior
PRIOR STILING DATE: 2002-01-18
NUMBER: DATE: 2002-01-18
NUMBER: DATE: 2002-01-18
NUMBER OF SEQ ID NOS: 164
SOFTWARE: PATENTIN: Oliconological de prior
PRIOR FILING DATE: 2002-01-18
NUMBER: D
Search completed: June 13, 2006, 02:00:46 Job time : 67 secs
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6 SRASGASRDLV 16
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Total number of hits satisfying chosen parameters:
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US-11-23-610-172

US-11-23-6151-27

US-11-126-182-98

US-10-984-473-36

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| S-11-121-282-52
| S-11-334-622-12
| S-10-508-063A-18
| S-10-981-300-62
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| S-10-544-050-67
| S-11-134-445-68
| S-11-122-916-435
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| S-11-123-916-435
| S-11-233-622-39
| S-10-984-473-26
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APPLICANT: Devaux, Brigitte
APPLICANT: Laton, Dan L.
APPLICANT: Hass, Philip E.
APPLICANT: Hass, Philip E.
APPLICANT: Judice, J. Kevin
APPLICANT: Kirchhofer, Daniel
APPLICANT: Suggett, Shelley
TITLE OF INVENTION: Human Anti-Factor IX/IXa Antibodies
FILE REFERENCE: P1661R2
CURRENT APPLICATION NUMBER: US/10/614,959
CURRENT APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/383,667
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/383,667
PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-08-28
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/098,233
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/098,233
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/098,233
PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-03
NUMBER OF SEQ ID NOS: 32
SEQ ID NO 22
LENGTH: 17
TYPE: PET
                        RESULT 2
US-11-251-734-21
US-11-251-734-21
; Sequence 21, Application US/11251734
; Publication No. US20060100134A1
; GENERAL INFORMATION:
; APPLICANT: AVENTIS PHARMACEUTICALS INC.
; APPLICANT: MORSE, Clarence C
; APPLICANT: MORSE, Clarence C
; APPLICANT: YAO, Zhengbin
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Matches 3
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     CANT: GUO, Yong
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COP INVENTION: MEMBRANE PENETRATING PEPTIDES AND USES THEREOF
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US-11-1010-406-10
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US-11-121-1429-39
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US-10-984-473-43
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Pred. No. 1.2e+03;
2; Mismatches 0;
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Result No.

Score

Query Match

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Pred. No.

is derived greater

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Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 s

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US-10-539-402-81
Sequence 81, Application US/10539402
Publication No. US20060115477A1
GENERAL INFORMATION:
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; OTHER INFORMATION: Synthetic peptide
US-11-251-734-21
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US-10-539-402-81
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CURRENT FILING DATE: 2005-06-17
PRIOR APPLICATION NUMBER: US 60/435,893
PRIOR FILING DATE: 2002-12-20
PRIOR APPLICATION NUMBER: EP 03000615
PRIOR APPLICATION NUMBER: EP 03000615
PRIOR FILING DATE: 2003-01-15
NUMBER OF SEQ ID NOS: 108
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: HMR2053 US NP1
CURRENT APPLICATION NUMBER: US/11/251,734
CURRENT FILING DATE: 2005-10-17
PRIOR APPLICATION NUMBER: US 09/933,780
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: US 60/227,647
PRIOR PPLICATION NUMBER: US 60/227,647
PRIOR FILING DATE: 2000-08-25
PRIOR FILING DATE: 2001-08-25
PRIOR APPLICATION NUMBER: US 60/227,647
PRIOR FILING DATE: 2001-02-07
NUMBER OF SEQ ID NOS: 54
                                                                                                                                                                           Sequence 5, Application US/11039005 Publication No. US20060115856A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn version 3.2
SEQ ID NO 21
LENGTH: 17
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Best Local Similarity
APPLICANT: Goldknopf, Ira L.
APPLICANT: Sheta, Essam A.
APPLICANT: Sheta, Essam A.
APPLICANT: Appel, Stanley H.
APPLICANT: Simpson, Ericka P.
APPLICANT: Simpson, Ericka P.
APPLICANT: Yen, Albert A.
TITLE OF INVENTION: AN 2'-5'-OLIGOADENYLATE SYNTHETASE LIKE PROTEIN AS A BIOMARKER
TITLE OF INVENTION: FOR NEURODEGENERATIVE DISEASE
FILE REFERENCE: PROT-P0013US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Neuropilin-1 Inhibitor FILE REFERENCE: XE12EPC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Xerion Pharmaceuticals AG APPLICANT: Tufts University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                   11 DLIW 14
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    Mismatches

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Pred. No. 1.2e+03;
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APPLICANT: Jan-Ingmar Flock
TITLE OF INVENTION: SPECIFICITY EXCHANGERS THAT REDIRECT
TITLE OF INVENTION: ANTIBODIES TO A PATHOGEN
FILE REFERENCE: TRIPEP.7AUC4CP1C
CURRENT APPLICATION NUMBER: US/11/121,282
CURRENT FILING DATE: 2005-05-03
PRIOR APPLICATION NUMBER: 10/372,735
PRIOR FILING DATE: 2003-02-21
PRIOR FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: 10/234,579
PRIOR APPLICATION NUMBER: 10/234,579
PRIOR APPLICATION NUMBER: 09/839,666
PRIOR FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: 09/839,666
PRIOR APPLICATION NUMBER: 09/839,666
PRIOR APPLICATION NUMBER: 09/832,106
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                                                                                                                                                                                                                                                                        Sequence 52, Application US/11121282
Publication No. US20060094862A1
GENERAL INFORMATION:
APPLICANT: Matti Sallberg
APPLICANT: Jan-Ingmar Flock
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Xerion Pharmaceuticals AG
APPLICANT: Tufts University
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LENGTH: 17
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Publication No. US20060115477A1
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Matches 3; Conserv
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/539,402
CURRENT FILING DATE: 2005-06-17
PRIOR APPLICATION NUMBER: US 60/435,893
PRIOR FILING DATE: 2002-12-20
PRIOR APPLICATION NUMBER: EP 03000615
PRIOR FILING DATE: 2003-01-15
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CURRENT FILING DATE: 2005-01-19
PRIOR APPLICATION NUMBER: 60/632,218
PRIOR FILING DATE: 2004-12-01
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SOFTWARE: PatentIn version 3.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens
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100.0%; Pred. No. 3.7e+03;
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Pred. No.
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. 1.7e+03;
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Sequence 18, Application US/10508063A

Publication No. US20060088832A1

GENERAL INFORMATION:
APPLICANT: Deutsches Krebsforschungszentrum
APPLICANT: ANGEL, Peter
APPLICANT: FURSTENBERGER, Gerhard
APPLICANT: FURSTENBERGER, Gerhard
APPLICANT: RICHTER, Harmut
APPLICANT: HESS, Jochen
APPLICANT: HESS, Jochen
APPLICANT: TUCKERMAN, Jan
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US-11-334-622-12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Artificially Synthesized Peptides
US-11-121-282-52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 12, Application US/11334622
Publication No. US20060112440A1
GENERAL INFORMATION:
APPLICANT: Tsien, Roger Y.
APPLICANT: Miyawaki, Atsushi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 56
SOFTWARE: FRANKSEQ for Windows Version 4.0
SEQ ID NO 12
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 19.8%;
Best Local Similarity 66.7%;
Matches 2; Conservative
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Best Local Similarity 50.0%;
Matches 3; Conservative
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SEQ ID NO 52
LENCTH: 17
TYPE: PRT
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CURRENT APPLICATION NUMBER: US/11/334,622
CURRENT FILING DATE: 2006-01-17
PRIOR APPLICATION NUMBER: US/09/554,000
PRIOR APPLICATION NUMBER: US/09/554,000
PRIOR FILING DATE: 2000-04-20
PRIOR FILING DATE: 1997-03-14
TITLE OF INVENTION: TAP-70, A NOVEL MARKER FILE REFERENCE: 31304-701.831 CURRENT APPLICATION NUMBER: US/10/508,063A CURRENT FILING DATE: 2004-09-16
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PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/246,258
PRIOR FILING DATE: 1999-02-08
NUMBER OF SEQ ID NOS: 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence FEATURE:
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                                                              A NOVEL MARKER FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 17; DB 7;
Pred. No. 3.7e+03;
1; Mismatches 0
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Pred. No. 3.7e+03;
                                                                EPITHELIAL TUMORS
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APPLICANT: GIORGIO SENALDI
APPLICANT: GADI GAZIT-BORNSTEIN
TITLE OF INVENTION: ANTI-POPOBEDIN ANTIBODIES, AN
TITLE OF INVENTION: FOR MAKING AND USING THE SAM
FILE REFERENCE: ABGX-005
CURRENT APPLICATION NUMBER: US/10/981,300
CURRENT FILING DATE: 2004-11-03
NUMBER OF SEO ID NOS: 71
SOPTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 63
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 9
US-10-981-300-62
; Sequence 62, Application US/10981300
; Publication No. US20060093599A1
; Publication No. US20060093599A1
              Query Match
Best Local Similarity
Thes 2; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: PRT ; ORGANISM: Homo sapiens US-10-981-300-62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-10-508-063A-18
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US-10-981-300-63
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                                                                                              US-10-981-300-63
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APPLICANT: GADI GAZIT-BORNSTEIN
TITLE OF INVENTION: ANTI-PROPERDIN ANTIBODIES, AND METHODS
TITLE OF INVENTION: FOR MAKING AND USING THE SAME
FILE REFERENCE: ABGX-005
CURRENT APPLICATION NUMBER: US/10/981,300
CURRENT FILING DATE: 2004-11-03
NUMBER OF SEQ ID NOS: 71
SOPTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 62
LENGTH: 17
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Best Local Similarity 65...
Thes 2; Conservative
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                                                                                                                                                                                                                                                                                                                                Sequence 63, Application US/10981300 Publication No. US20060093599A1
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Best Local
                                                                                                        LENGTH: 17
TYPE: PRT
ORGANISM: Homo sapiens
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TYPE: PRT
ORGANISM: Artificial
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les 3; Conserv
12 LIW 14
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                               Conservative
                                              18.6%;
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                             Score 16; DB 6;
Pred. No. 5.3e+03;
1; Mismatches 0
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Pred. No. 5.3e+03
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Pred. No. 5.3e+03;
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SAME
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                                                               Length 17;
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RESULT 11 US-10-544-050-67 밁

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US-11-134-445-68
                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/11/134,445
CURRENT FILING DATE: 2005-05-23
PRIOR APPLICATION NUMBER: 10/792,893
PRIOR FILING DATE: 2004-03-05
PRIOR APPLICATION NUMBER: 10/383,614
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: 10/277,969
PRIOR APPLICATION NUMBER: 10/277,969
PRIOR APPLICATION NUMBER: 10/270,014
PRIOR APPLICATION NUMBER: 10/200,148
PRIOR APPLICATION NUMBER: 10/200,148
PRIOR APPLICATION NUMBER: 10/141,647
PRIOR APPLICATION NUMBER: 10/141,647
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CURRENT FILING DATE: 2005-07-29
PRIOR APPLICATION NUMBER: 60/446380
PRIOR FILING DATE: 2003-02-10
NUMBER OF SEQ ID NOS: 76
SOFTWARE: PatentIn version 3.2
SEQ ID NO 67
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Davies Julian
TITLE OF INVENTION: Abeta Binding Molecules
FILE REFERENCE: X-16068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 68, Application US/11134445
Publication No. US20060094677A1
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APPLICANT: HEIKKILA, ELIZABETH MARGARET
APPLICANT: SENCHYNA, DIANE MICHELLE
APPLICANT: FLANAGAN, JOHN GERARD
APPLICANT: THOMPSON, JOHN E.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES AND SIRNAS AS ANTI-INFLAMMATC
TITLE OF INVENTION: THERAPEUTICS
FILE REFERENCE: 10799/125
                                            PRIOR FILING DATE: 2004-03-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: TAYLOR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial sequence
                                                                                                                                OR FILING DATE: 2002-05-07
OR APPLICATION NUMBER: 09/909,796
OR FILING DATE: 2001-07-23
OR APPLICATION NUMBER: 60/476,194
OR FILING DATE: 2003-06-06
OR APPLICATION NUMBER: 60/504,731
OR FILING DATE: 2003-09-22
                                                               APPLICATION NUMBER: 60/528,249 FILING DATE: 2003-12-10 APPLICATION NUMBER: 60/557,671
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Prior Application SEQ ID NOS: 95
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No. US20060110388A1
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100.0%; Pred. No. 5.3e+03;
Live 0; Mismatches 0;
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                     See File Wrapper or
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic; OTHER INFORMATION: peptide US-11-134-445-68
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LENGTH: 17
TYPE: PRT
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SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 435
                                                                                    Query Match
Best Local (
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Best Local :
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CURRENT APPLICATION NUMBER: US/11/122,986
CURRENT FILING DATE: 2005-05-05
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PRIOR FILING DATE: 2002-11-06
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PRIOR FILING DATE: 2002-11-06
PRIOR APPLICATION NUMBER: 60/424,376
PRIOR FILING DATE: 2002-11-06
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PRIOR FILING DATE: 2002-11-05
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PRIOR FILING DATE: 2002-11-05
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APPLICANT: VEDADI, MASOUD
TITLE OF INVENTION: ESSENTIAL NOVEL BACTERIAL POLYPEPTIDES
                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/424,370
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                                                                                                                                                              ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                LENGTH:
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Pred. No. 5.3e+03,
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5.3e+03;
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US-11-23-610-172 US-11-23-610-172 ; Sequence 172, Application US/11223610 ; Publication No. US20060111289A1

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Sequence 39 Application US/11334622
Publication No. US20060112440A1
GENERAL INFORMATION:
APPLICANT: Tsien, Roger Y.
APPLICANT: Tsien, Roger Y.
TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR TITLE OF INVENTION: DETECTION OF ANALYTES
FILE REFERENCE: 07257/042001
CURRENT APPLICATION NUMBER: US/11/334,622
CURRENT APPLICATION NUMBER: US/09/554,000
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: 08/818,252
PRIOR FILING DATE: 1997-03-14
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 39
LENGTH: 17
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
COTHER INFORMATION: Calmodulin binding peptide-2
US-11-334-622-39
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US-11-334-622-39
Search completed: June 13, 2006, 02:00:58 Job time : 7 secs
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Best Local S:
Matches 3
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TITLE OF INVENTION: Inhibitory Peptides
FILE REPERENCE: HOLLAND-09516
CURRENT APPLICATION NUMBER: US/11/223,610
CURRENT FILING DATE: 2005-09-09
NUMBER OF SEQ ID NOS: 181
SOFTWARE: Patentin version 3.3
SEQ ID NO 172
LENGTH: 17
TYPE: PRT
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APPLICANT: Mizejewski, Gerald J.
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Local Similarity 60.0%;
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AAU02937
ABP72820
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Adl70732
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Abp72820
Adh89360
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Abm83783
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Adt08174
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Abm83781
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	Adk15868

## ALIGNMENTS

RESULT 1
ADG446076
ID ADG446076
ADG446076
AC ADG4
AX EP13
AX ADG4
AX A antibody; carbohydrate-deficient transferrin; CDT; non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human. Human CDT peptide fragment ADG46076; 05-JUL-2002; 2002DE-01030550. 19-MAY-2003; 2003EP-00011334 07-JAN-2004. EP1378521-A1. Homo sapiens 25-MAR-2004 ADG46076 standard; peptide; (DADE-) DADE BEHRING MARBURG GMBH (first entry) 23 B

Althaus H;

WPI; 2004-073743/08

New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating need for immobilization.

Claim 4; SEQ ID NO 2; 21pp; German.

This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences VVARSWCGKEDLIWELL, TTEDSIAKIMNGEADANSLDGGF, SKLSMGSGLNLSEEN and YEKYLGEEYVKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention. The antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for

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RESULT 2
AAB84371
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          The present sequence represents human transferrin polypeptide.
CC Transferrin polypeptides and polynucleotides are used to prevent, treat
CC or ameliorate a medical condition in e.g. humans, mice, rabbits, goats,
CC horses, cate, dogs, chickens or sheep. Disorders which are diagnosed or
CC treated include autoimmune diseases e.g. rheumatoid arthritis,
CC cardiovascular disorders e.g. neoplesms of the brack or liver,
CC cardiovascular disorders e.g. resplements of the cardisorders
CC e.g. cerebral ischemia, angiogenesis, nervous system disorders e.g.
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi and
CC ocular disorders e.g. corneal infection. The polypeptides can also be
CC used to aid wound healing and epithelial cell proliferation, to prevent
CC skin aging due to sumburn, to maintain organs before transplantation, for
CC supporting cell culture of primary tissues, to regenerate tissues and in
CC chemotaxis. The polypeptides can also be used as a food additive or
CC preservative to increase or decrease storage capabilities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     production of antibodies that specifically bind CDT from the aqueous phase. The antibodies are useful for diagnosis of alcoholism, CDT, whice lacks glycosylation at Asn413 and/or Asn 611, is present only in alcoholics. The antibodies allow direct detection of CDT in solution, eliminating the need for immobilising it on a solid phase (as required when using known antibodies). ADG46075-ADG46094 represent CDT peptide fragments used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; transferrin; autoimmune disease; rheumatoid arthritis; hyperproliferative disorder; neoplasm; cardiovascular disorder; cardiac arrest; cerebrovascular disorder; lischemia; angiogenesis; nervous system disorder; Alzheimer's disease; infection; ocular disorder; corneal infection; wound healing; epithelial cell proliferation; aging; organ transplant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 11; Page 286-287; 290pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Isolated nucleic acid molecule encoding a human tranferrin protein is used in preventing, treating or ameliorating a medical condition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-DEC-1999;
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100.0%; Pred. No. 4.9e-11;
tive 0; Mismatches 0;
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Best Local S
Matches 22
                                                                                   The sequence represents an angiotensin converting enzyme splice variant (ACEV) polypeptide. The polypeptides of the invention include variants of granulocyte colony stimulating factor receptor, glucagon, interleukin 6, platelet-derived endothelial cell growth factor, cyclin-dependent kinase inhibitor 1C, cellular tumour antigen P53, and vasoactive intestinal polypeptide receptor 2. The polypeptides and their associated nucleic acids are useful for identification of variant sequences and detection oc andidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various disorders including cardiovascular diseases such as arteriosclerosis, myocardial infarction and coronary arterial thrombosis, renal diseases such as diabetic nephropathy, muscular diseases such as hypertrophy, immune disorders such as immune comparties, multiple sclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Angiotensin converting enzyme splice variant; ACEV; interleukin 6; granulocyte colony stimulating factor receptor; glucagon; hypertrophy; platelet-derived endothelial cell growth factor; cardiovascular disease; cellular tumour antigen P5; cyclin-dependent kinase inhibitor 10; vasoactive intestinal polypeptide receptor 2; arteriosclerosis; cancer; myocardial infarction; coronary arterial thrombosis; renal disease; diabetic nephropathy; muscular disease; immune disorder; sarcoidosis; multiple sclerosis; immune complex nephritis; deep vein thrombosis; nonarcoidocic pulmonary granulomatous disease; endothelial abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel alternative splicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 328
                             cancer, sarcoidosis, nonarcoidotic pulmonary granulomatous diseases as asbestosis and vascular pathologies involving an endothelial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
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10-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-SEP-2001
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22; Conser
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99IL-00133455.
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95.7%;
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Pred. No. 6.8e-09;
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              polynucleotides. The human MEPR polypeptides, polynucleotides and modulators are useful for diagnosing, treating or preventing disorders associated with aberrant expression of MEPR, particularly cell proliferative disorders (e.g. arteriosclerosis, atherosclerosis, hepatitis, paroxysmal nocturnal hemoglobinuria, polycythemia vera, psoriasis, primary thromobocytopenia or cancer), developmental disorders (e.g. renal tubular acidosis, anemia or mental retardation), neurological disorders (e.g. Alzheimer's disease, Parkinson's disease or epilepsy), autoimmune/inflammatory disorders (e.g. AIDS, allergies, asthma, autoimmune thyroiditis, contact dermatitis, Croh's disease, diabetes mellitus, glomerulonephritis, Godpasture's syndrome, gout,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              allergy or hepatitis.
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18-JAN-2002; 2002US-035070DL.
19-MAR-2002; 2002US-0366059P.
10-MAY-2002; 2002US-0379907P.
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antirheumatic; haemostatic; antibacterial; protozoacide; fungion
                                                                                                                                                                                                                                                                                                                                                                                                           Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New human metalloproteins and polynucleotides, useful for diagnosing, treating or preventing autoimmune or inflammatory disorders (e.g. AIDs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Emerling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kable AE,
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                                                                                                                                                                                                                                                                                                                                            invention relates to novel human metalloproteins (MEPR) and encoding
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DB; ACF35812.
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                                                                                                                                                                                                                                                                                                                                                                                                     1; Page 146-148; 153pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         or anemia), multiple
     disease,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Griffin JA,
M, Chien D,
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Hashimoto's thyroiditis, irritable bowel syndrome
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Pred. No. 1.2e-08;
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Chawla NK, Yue
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e H, Khare
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-SEP-2002; 2002US-0410259P.
12-SEP-2002; 2002US-0410260P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2004-329368/30.
DB; ACN42434.
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Pred. No. 1.
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in gene mapping. molecules, e.g. w diagnostic and therapeutic polynucleotides and polypeptides, diagnosing a condition, disease or disorder associated with helecules, e.g. autoimmune or inflammatory disorders, in gene the therapy or

Claim 27; Page; 190pp; English

The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, endocrine autoimmune/inflammatory disorder, developmental disorder, endocrine disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide

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Query Match
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Matches 22
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The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorder, developmental disorders, endocrine disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New diagnostic and therapeutic polynucleotides and polypeptides, use in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                       Claim 27; Page; 190pp; English.
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S, Shi X,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , Wright RJ, Bruns CM, Marjanovic MM, Shen F; e TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV; Delegeane AM, Panesar IS, Banville SC, Reddy TP; Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin EH; Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL; Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Gietz, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Spiro PA, Stewart EA, Wingrove J, Witt UA, Kirton ES, Spiro PA, Spiro PA,
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Policky JL,
X, Suarez CJ;
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Pred. No. 1.4e-08;
0; Mismatches 1
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RESULT 7
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ID ABM83779
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Best Local S
Matches 22
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Peralta CH, Anderson SB, Rioux
Lagace RE, Spiro PA, Stewart E
Xu Y, Kwong M, Policky JL, Hv
                        with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorder, developmental disorders, or disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying indiverse from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germ
                                                                                                                                                                                                                                The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New diagnostic and therapeutic polynucleotides and polypeptides, use in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene therapy. The present sequence represents a dithp protein invention. Note: The sequence data for this patent is not represent printed specification, but was obtained in electronic form from WIPO at www.wipo.int/pct/en/sequences/listing.htm
                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 27; Page; 190pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-329368/30.
N-PSDB; ACN42431.
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12-SEP-2002; 2002US-0410260P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Harthshorne TA,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene mapping.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Delegeane AM, Panesar IS, Banville SC, Reddy T
Blanchard JL, Panzer SR, Wang X, Au AP, Gers
Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve
Spiro PA, Stewart EA, Wingrove J, Vitt UA, Ki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ht RJ, Bruns CM, Marjanovic MM, Shen F;
Suchorolski MT, Altus CM, Pitts SJ, Elde
Suchorolski MT, Banville SC, Reddy
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Pred. No. 1
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                                                                                                                                                                                  endocrine
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                                                                                                                                                      The invention relates to novel human metal binding proteins (MBP) and CC encoding polynucleotides. The MBPs can be expressed by standard recombinant methodology. The polypeptides and polynucleotides are useful in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of MBP, such as cell CC proliferative (e.g. cancer, atherosclerosis), neurological (e.g. Cancer), disease, stroke), immune/inflammatory (e.g. AIDS, CC epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, CC disorders, or infections. These are also useful in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of MBP. The MBP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds that specifically bind to or modulate the activity of the polypeptide. An microarray comprising different nucleotide molecules affixed at distinct polysical locations on a solid substrate, where at least one nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human metal binding proteins (MBP), useful for diagnosing, treating and preventing diseases or conditions associated with the aberrant MBP expression e.g. cancer, AIDS, epilepsy, or infections.
                                   molecule comprises a first oligonucleotide or polynucleotide sequence specifically hybridizable with at least 30 contiguous nucleotides of the target polynucleotide is useful in monitoring or measuring protein-protein interactions, drug-target interactions, and gene expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Jiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; transgenic; human.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID NO 3; 161pp; English.
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present sequence represents a human MBP
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95.7%;
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                     The invention relates to novel diagnostic and therapeutic polynucleotides CC selected from one of the 2722 sequences defined in the specification. A CC polynucleotide of the invention may have a use in gene therapy. The human CC diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be CC used to diagnose a particular condition, disease or disorder associated CC with human molecules, e.g. cell proliferative disorder, endocrine CC autoimmune/inflammatory disorders, developmental disorders, or confections caused by virus, bacteria, fungi or parasite. The dithp CC molecules may also be used in genetic mapping, in identifying individuals CC from minute biological samples, in detecting single nucleotide CC polymorphisms, as molecular weight markers, and for somatic or germline CC gene therapy. The present sequence represents a dithp protein of the convention. Note: The sequence data for this patent is not represented in the princed specification, but was obtained in electronic format directly CC from WIPO at www.wipo.int/pct/en/sequences/listing.htm
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Best Local Similarity
Matches 22; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Stevens KA,
Peralta CH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 27; Page; 190pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; ACN42430
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in gene mapping.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Harthshorne
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-SEP-2002; 2002US-0410259P
12-SEP-2002; 2002US-0410260P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (INCY-) INCYTE CORP
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S, Shi X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  _
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Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin
, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirto
Og M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, G
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, Suarez CJ;
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95.7%;
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Pred. No. 1.
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s SJ, Elder LV
SC, Reddy TP;
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                                                  The invention relates to novel diagnostic and therapeutic polynucleotides consisted from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, endocrine autoimmune/inflammatory disorder, developmental disorder, endocrine disorder, neurological disorder, gastrointestinal disorder, or disorder, neurological disorder, gastrointestinal disorders, or disorder, neurological disordereria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this patent is not represented in the printed specification, but was obscinced in electronic format directly from which are the printed specification, but was obscinced in electronic format directly
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12-SEP-2002; 2002US-0410260P
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DB; ACN42435.
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                                                                                                                                                                                                                                                                                                                                                           Page; 190pp;
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                                          www.wipo.int/pct/en/sequences/listing.htm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Policky JL,
Suarez CJ;
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95.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerstin EH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kirton ES;
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Sequence 645

abnormality such as

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                                                                                  The sequence represents an angiotensin converting enzyme splice variant CC (ACEV) polypeptide. The polypeptides of the invention include variants of CC granulocyte colony stimulating factor receptor, glucagon, interleukin 6, CC platelet-derived endothelial cell growth factor, cyclin-dependent kinase cinhibitor 1C, cellular tumour antigen P53, and vasoactive intestinal CC polypeptide receptor 2. The polypeptides and their associated nucleic condidate compounds capable of binding the molecules. The sequences of CC the invention can be used in the treatment and diagnosis of various cisorders including cardiovascular diseases such as arteriosclerosis, CC myocardial infarction and coronary arterial thrombosis, renal diseases such as diabetic nephropathy, muscular diseases such as hypertrophy, concern, sarcoidosis, nonarcoidotic pulmonary granulomatous diseases such as asbestosis and vascular pathologies involving an endothelial
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Best Local S
Matches 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel alternative splicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Levine 2,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 David A,
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99IL-00133455
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Pred. No. 1.5e-08;
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                            The invention relates to novel diagnostic and therapeutic polynucleotides content from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorder, endocrine disorder, neurological disorder, developmental disorder, endocrine disorder, neurological disorder, gastrointestinal disorder, endocrine disorders, or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at www.wipo.int/pct/en/sequences/listing.htm
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Best Local (
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Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV;
Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP;
Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin EH;
Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES;
Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gietzer
Patury S, Shi X, Suarez CJ;
                                                                                                                                                                                                                                                                                                                                                                                         New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or
                                                                                                                                                                                                                                                                                                                                            Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-SEP-2002; 2002US-0410259P.
12-SEP-2002; 2002US-0410260P.
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DB; ACN42432.
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                                                                                                                                                                                                                                                                                                                                        27; Page; 190pp; English
                                                                                                                                                                                                                                                                                                                                                                              mapping
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95.7%;
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Pred. No. 1
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.5e-08;
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Sequence 646

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The sequence represents an angiotensin converting enzyme splice variant (ACEV) polypeptide. The polypeptides of the invention include variants of granulocyte colony stimulating factor receptor, glucagon, interleukin 6, CC platelet-derived endothelial cell growth factor, cyclin-dependent kinase inhibitor 1C, cellular tumour antigen P3, and vasoactive intestinal colonypeptide receptor 2. The polypeptides and their associated nucleic colds are useful for identification of variant sequences and detection of candidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various clisorders including cardiovascular diseases such as arteriosclerosis, compocardial infarction and coronary arterial thrombosis, renal diseases such as diabetic nephropathy, muscular diseases such as hypertrophy, cancer, sarcoidosis, nonarcoidotic pulmonary granulomatous diseases such as asbetosis and vascular pathologies involving an endothelial
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                    Novel alternative splicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB;
                                                                                                                                                                                                                                                                                                                                   Claim 4; Fig 37; 519pp; English
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10-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            David A,
                                      such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    converting enzyme (ACEV)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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99IL-00133455
                                    as deep vein
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95.7%;
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Pred. No. 1.5e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Khosravi R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       splice variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 646;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
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DB 4; Length 665;

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RESULT 14
ABP72820
ID P72820
XX ABP72
XX ABP72
XX ABP72
XX Human
X
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Best Local S
Matches 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gynaecological; immunostimulant; antianaemic; haemostatic; antiparasitic; antipflammatory; dermatological; antibacterial; virucide; antiparasitic; fungicide; hepatotropic; antirheumatic; antiarthritic; antigout; tranquillizer; vulnerary; antidiabetic; nephrotropic; antipyretic; gastrointestinal; gene therapy; transgenic animal.
                     Binding-site
                                                                   Binding-site
                                                                                                                Binding-site
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                                                                                                                                                                                                         Binding-site
                                                                                                                                                                                                                                                                                                    Binding-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Binding-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; immunosuppressive; antiatherosclerotic; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antiparkinsonian; nootropic; anti-HIV; antiasthmatic; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; transferrin; neuroprotective; cerebroprotective; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human transferrin (mature polypeptide).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABP72820
                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
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                                                                                                                                                                                                                                                                                                                                                    Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22;
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ilarity 95.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
/note= "Iron binding site"
517
/note= "Iron binding site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers 63
                                                                                                                     459
                                                                                                                                                              458
                                                                                                                                                                                                           456
                                                                                                                                                                                                                                                                                                                                                 /note= "N-glycosylated"
425. .427
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                                                                                                                                                                                                                                                                                                                                                                                                                  note= "Iron binding site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                note= "Hinge region"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .318
                                                                                                                                                                                                                              "Carbonate ion binding
                                                                                                                                                                                                                                                                                                                            "Hinge region"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Hinge region"
                                                                                           "Carbonate ion
                                                                                                                                        "Carbonate ion binding site"
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Pred. No. 1.6e-08;
0; Mismatches 1
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                                                                                           binding
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The present sequence is the protein sequence of human transferrin (Tf), CC minus the signal peptide. The invention relates to modified Tf fusion CC proteins comprising at least one therapeutic protein, polypeptide or CC peptide, in which the Tf portion is engineered to extend the serum half clife or bloavailability of the molecule. The modified Tf fusion protein CC preferably comprises a human Tf moiety that has been modified to reduce CC or prevent glycosylation, iron binding and/or transferrin receptor CC binding, having at least one amino acid substitution, deletion or CC addition in the hinge region, or at residues Asp-63, Gly-65, Tyr-95, Tyr-CC 188, Lys-206, His-207, His-249, Asp-392, Tyr-426, Tyr-514, Tyr-517, His-CC (all claimed). Nucleic acids encoding such fusion proteins, vectors, host CC cells and transgenic animals which produce the fusion protein is useful for transfering a disease cyanitom or far Asilvarina a theraparitic CC treating a disease or disease examine or far Asilvarina a theraparitic
                                                    treating a disease or disease symptom, or for delivering a therapeutic agent complexed to the ferric iron of transferrin to the inside of a cell or across the blood-brain barrier. The modified fusion protein, or a nucleic acid encoding it, can be used in the diagnosis, prognosis, prevention and/or treatment of diseases and/or disorders of the endocrine, nervous, immune, respiratory, cardiovascular, reproductive and digestive systems, diseases and/or disorders relating to the blood or to cell proliferation, inflammatory conditions, and to treat viral, fungal, the latest of the systems.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New fusion protein, useful in the diagnosis and treatment of diseases disorders relating to the respiratory, cardiovascular and digestive systems, comprises a transferrin protein fused to a therapeutic protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 280-281; 298pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-332916/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-AUG-2001; 2001US-0315745P 30-NOV-2001; 2001US-0334059P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-AUG-2002; 2002WO-US027637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003020746-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  581. .582
/note= "Hinge region"
585
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "Hinge region"
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protein

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RESULT 15
ADH89360
ID ADH89
XX
AC ADH89
XX
DT 15-AF
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                                                                                                                                 Matches
                                                                                                                                         Query Match
Best Local
 15-APR-2004
                    ADH89360;
                                       ADH89360 standard; protein; 679
                                                                                                                                                                      Sequence 679 AA;
                                                                                          373 TTEDCIAKIMNGEADAMSLDGGF 395
                                                                                                            \vdash
                                                                                                                               22;
                                                                                                                                          Similarity
                                                                                                    TTEDSIAKIMNGEADAMSLDGGF 23
                                                                                                                                 Conservative
 (first entry)
                                                                                                                                          95.7%;
95.7%;
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                                                                                                                                          Score 110; DB 6;
Pred. No. 1.6e-08;
                                                                                                                                  Mismatches
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                                                                                                                                                  Length 679
                                                                                                                                  Indels
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or parasitic

inflammatory conditions, tic infection

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                                                                    Query Match
Best Local S
Matches 22
                                                                                                                                                                                    This invention relates to a novel fusion protein which comprises a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region. The invention may be useful for the development of compounds with cytostatic, antibacterial, virucide, antiparasitic, immunosuppressive or antiarthritic activity. In addition, the sequences disclosed may be useful for gene therapy. The fusion protein is useful for preparing a composition for treating a disease or disease symptom in a patient for example septic shock, endotoxic shock, cachexia syndromes associated with bacterial, viral or parasitic infections, neoplasm, autoimmune disease, arthritis or adverse effects associated with treatment for preventing graft rejection. The present sequence is that of the mature human transferrin protein which is related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New fusion protein comprising a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region, useful for preparing a composition for treating e.g., septic shock, neoplasm or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-AUG-2001; 2001US-0315745P.
30-NUV-2001; 2001US-03340599.
30-AUG-2002; 2002US-00231494.
30-AUG-2002; 2002US-0406977P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fusion protein; transferrin protein; glycosylation; antibody variable region; cytostatic; antibody variable region; cytostatic; antitacterial; virucide; antiparasitic; immunosuppressive; antiarthritic; gene therapy; septic shock; endotoxic shock; cachexia syndrome; bacterial infectiviral infection; parasitic infection; neoplasm; autoimmune disease; arthritis; graft rejection; human.
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                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 3; 82pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; ADH89358.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sadeghi H,
                                                                                                                                       Sequence 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                         autoimmune disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BIOR-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2004-022093/02.
 373
                                                                                                                                                                       invention.
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                                                                                    Similarity
TTEDSIAKIMNGEADAMSLDGGF 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prior CP,
                                                                      Conservative
                                                                                                                                       ΑA,
                                                                                  95.7%;
95.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Turner A;
                                                                    <u>,</u>
                                                                                    Score 110; DB 8; Length 679; Pred. No. 1.6e-08;
                                                                    Mismatches
                                                                    Indels
                                                                                                                                                                                        The present which is related
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Search completed: June 13, 2006, Job time: 149.824 secs

03:58:17



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Result
No.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Minimum DB seq
Maximum DB seq
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                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OM protein -
Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being p
                                                                                                                                                                                                                                                                Score
                                                                                                                                                                                                                                                                                                          is derived by analysis of the total score distribution.
                                                                                             protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                 length: 0
length: 2000000000
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Match
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115
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Maximum Match 100%
Listing first 45 summaries
                                 40.0
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pir2:*
pir3:*
pir4:*
                                                                                                                                                                                                                                                                Length
737
1238
1238
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483
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110
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                                                                                             GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                DB
                                A40185
S17944
S17946
S17946
D87752
T15180
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E86780
D72733
S13486
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S12100
T11749
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A45543
S49163
TFHUL
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I47228
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virulence sensor p
protein C18E3.6 (i
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transferrin - pig
                         conserved hypothet
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                                                                            probable membrane
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                                                                                                             phosphate ABC
                                                                                                                       transferrin
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transferrin precur
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                                  hypothetical prote
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
43	43	43	43	43	43	43.5	43.5	44	44	44	44	44	44	44	45
37.4	37.4	37.4	37.4	37.4	37.4	37.8	37.8	38.3	38.3	38.3	38.3	38.3	38.3	38.3	39.1
376	358	352	320	298	246	738	187	1012	747	747	747	461	371	339	852
N	2	N	N	N	N	_	N	N	N	N	N	N	N	N	N
F72514	A82206	AC0299	JC7929	B71317	A64326	TFHUM	D82794	T13603	F65026	A85894	E91049	D84971	A69379	G69253	ס72230
probable glucokina	protein-glutamate	probable membrane	ATP-dependent gluc	hypothetical prote	hypothetical prote	melanotransferrin	fimbrillin XF0539	probable N-methyl-	hypothetical prote	probable cytochrom	probable cytochrom	phosphotransferase	conserved hypothet	hypothetical prote	conserved hypothet

## ALIGNMENTS

A;Molecule type: DNA
A;Rosidues: 1-72;291-300 <ADR>
A;Residues: 1-72;291-300 <ADR>
A;Residues: 1-72;291-300 <ADR>
A;Cross-references: UNIPARC:UPI000016B0AC; UNIPARC:UPI000016B0AD; EMBL:M15673
A;Cross-references: UNIPARC:UPI000016B0AC; UNIPARC:UPI000016B0AD; EMBL:M15673
A;Uzan, G.; Frain, M.; Park, I.; Besmond, C.; Maessen, G.; Trepat, J.S.; Zakin, M.M.;
Biochem. Biophys. Res. Commun. 119, 273-281, 1994
A;Title: Molecular cloning and sequence analysis of cDNA for human transferrin.
A;Reference number: A32739, MUID:84153910; PMID:6322780
A;Accession: A32739 A;Molecule type: DNA
A;Residues: 73-263,'E',265-328,'N',330-562 <PAR>
A;Residues: 73-263,'E',265-328,'N',330-562 <PAR>
A;Cross-references: UNIPARC:UPI0000174484; EMBL.M11361
A;Adrian, G.S.; Korinek, B.W.; Bowman, B.H.; Yang, F.
Gene 49, 167-175, 1986
A;Title: The human transferrin gene: 5' region contains conserved sequences which match
A;Reference number: A29090; MUID:87192006; PMID:3106157
A;Accession: A29090 A;Cross-references: UNIPROT:P02787; UNIPARC:UPI00002F089; EMBL:M12530; NID:g339452; PID:A;Note: the authors translated the codon CAA for residue 203 as Glu R;MacGillivray, R.T.A.; Mendez, E.; Shewale, J.G.; Sinha, S.K.; Lineback-Zins, J.; Brew, J. Biol. Chem. 258, 3543-3553, 1983
A;Title: The primary structure of human serum transferrin. The structures of seven cyano A;Reference number: A92417; MUID:83160878; PMID:6833213
A;Accession: A92417 C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 15-Oct-1982 #sequence revision 30-Sep-1993 #text change 09-Jul-2004
C;Date: 15-Oct-1982 #sequence revision 30-Sep-1993; I51959; I63133; I54011; I68160; A03
C;Accession: A20981, A92417; Ā94044; A29090; A32739; I51959; I63133; I54011; I68160; A03
R;Yang, F.; Lum, J.B.; McGill, J.R.; Moore, C.M.; Naylor, S.L.; van Bragt, P.H.; Baldwin
Proc. Natl. Acad. Sci. U.S.A. 81, 2752-2756, 1984
A;Title: Human transferrin: cDNA characterization and chromosomal localization.
A;Reference number: A20981; MUID:84194084; PMID:6585826
A;Contents: variant C A;Molecule type: mRNA A;Residues: 422-690, 'G',692-698 <UZA> A;Cross-references: UNIPARC:UP1000016B0AB; EMBL:M12525; NID:g339468; PIDN:AAA61142.1; PI; R;MacGillivray, R.T.A.; Mendez, E.; Sinha, S.K.; Sutton, M.R.; Lineback-Zins, J.; Brew, | R;Park, I.; Schaeffer, E.; Sidoli, A.; Baralle, F.E.; Cohen, G.N.; Zakin, M.M. Proc. Natl. Acad. Sci. U.S.A. 82, 3149-3153, 1985
A;Title: Organization of the human transferrin gene: direct evidence that it originated A;Reference number: A94044; MUID:85216459; PMID:3858812 A; Accession: A94044 A;Molecule type: protein A;Residues: 20-263,'E',265-328,'N',330-379,'SD',382-435,'D',437-557,'T',559-560,'P',562-A;Cross-references: UNIPARC:UP10000174483 A; Molecule type: mRNA A; Residues: 1-698 < YAN> transferrin precursor [validated] N;Alternate names: siderophilin A; Accession: A20981 the sequence shown is the predominant electrophoretic genetic variant റ or TfC) Ka

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A;Gene: GDB:IF
A;Gene: GDB:IF
A;Cross-references: GDB:120432; OMIM:190000
A;Map Dosition: 3g21-3g21
A;Introns: 15/1; 72/3; 119/1; 168/1; 212/2; 231/1; 290/3; 350/1; 401/3; 433/1; 444/1; 49
C;Function:
C;Function: binds iron for delivery into cells
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron transport; metal binding; plasma
C;Keywords: duplication; glycoprotein; iron transport; MAT>
F;1-19/Domain: signal sequence #status predicted <STG>
F;20-598/Product: transferrin repeat homology <TRH1>
F;20-350/Domain: transferrin repeat homology <TRH2>
A;Title: The nucleotide sequence of rabbit liver transferrin cDNA
A;Reference number: S16246; MUID:91274362; PMID:2054387
A;Accession: S16246
                                                                                                            transferrin precursor - rabbit (Commestic rabbit)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 30-Sep-1993 #sequence revision 30-Sep-1993 #text change 22-Jun-1999
C;Date: 30-Sep-1993 #sequence revision 30-Sep-1993 #text change 22-Jun-1999
C;Accession: S16246; A61239; C61573; S00335; S02694; A26504; S14853
R;Banfield, D.K.; Chow, B.K.C.; Funk, W.D.; Robertson, K.A.; Umelas, T.M.; W.D.; Biochim. Biophys. Acta 1089, 262-265, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: DNA
A;Residues: 564-698 <RE4>
A;Residues: 564-698 <RE4>
A;Cross-references: UNIPARC:UPI000016B0AE; GB:M17614; NID:g339483; PIDN:AAA61148.1; PID:C;Comment: Each of the two repetitive domains binds a ferric ion and a bicarbonate anion C;Genetics:
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A;Residues: 636-696 (REZ)
A;Residues: 636-696 (REZ)
A;Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID:g339988; PIDN:AAA61233.1; PID:
A;Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID:g339988; PIDN:AAA61233.1; PID:
R;Schaeffer, E.; Lucero, M.A.; Jeltsch, J.M.; Py, M.C.; Levin, M.J.; Chambon, P.; Cohen,
Gene 56, 109-116, 1987
A;Title: Complete structure of the human transferrin gene. Comparison with analogous chi
A;Reference number: I54011; MUID:88056305; PMID:3678832
A;Accession: I54011
A;Status: translated from GB/EMBL/DDBJ
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Proc. Natl. Acad. Sci. U.S.A. 86, 7260-7264, 1989
A;Title: Changes in brain gene expression shared by scrapie and Alzheimer disease A;Reference number: 148174; MUID:89386721; PMID:2780570
A;Accession: I63133
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A; Molecule type: mRNA
A; Residues: 1-698 < RES>
A; Residues: 1-698 < RES>
A; Cross-references: UNIPARC: UPI000002F089; GB: S95936; NID: g248647; PIDN: AAB22049.1;
A; Cross-references: UNIPARC: Liu, N.G.; Tourtellotte, W.W.
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A;Accession: I68160
A;Status: translated from GB/EMBL/DDBJ
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A; Residues: 1-72 < RE3 >
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A;Title: A cloned gene for human transferrin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Proc. Natl. Acad. Sci. U.S.A. 79, 2504-2508, 1982
A;Title: The complete amino acid sequence of human serum transferrin.
A;Reference number: A93911, MUID:82222166; PMID:6953407
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A;Accession: I51959
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Best Local S
Matches 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      356-686/Domain: transferrin repeat homology <TRH2>
;28-67,38-58,137-213,156-350,177-193,180-196,190-198,246-260,358-615,364-396,374-387,4
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95.7%;
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Pred. No. 2.8e-09;
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transferrin precursor - horse
N;Alternate names: growth-promoting factor
C;Species: Equus caballus (domestic horse)
C;Date: 06-Jan-1995 #sequence revision 06-Jan-1995 #text
C;Accession: S33761; S02145
R;Carpenter, M.A.; Broad, T.E.
Biochim. Biophys. Acta 1173, 230-232, 1993
A;Title: The CDNA sequence of horse transferrin.
A;Reference number: S33761; MUID:93277958; PMID:8504171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: protein
A;Rolecule type: protein
A;Residues: 19-24,'N',26,'X',28-29,'S' <HEA>
A;Cross-references: UNIPARC:UPI0001744AA
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron transport; metal binding; plasma
F;19-18/Domain: signal sequence #status predicted <SIG>
F;19-69/Product: transferrin #status experimental <MAT>
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F;35-682/Domain: transferrin repeat homology <TRH2>
F;27-66,37-57,136-212,155-349,176-192,179-195,189-197,245-259,357-611,363-395,373-386,420
F;508/Binding site: carbohydrate (Asn) (covalent) #status experimental
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Biol. (Dhem. Hoppe-Seyler 369, 93-96, 1988
A;Title: Isolation, characterization and N-terminal amino-acid sequence of rabbit transfé
A;Reference number: S00335; MUID:88209278; PMID:3365331
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S33761
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A;Note: 516-Ile was also found
R;Heaphy, S.; Williams, J.
Biochem, J. 205, 611-617, 1982
A;Title: The preparation and partial characterization of N-terminal and C-terminal iron-t
A;Reference number: A26504; MUID:83074540; PMID:6816218
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FEBS Lett. 238, 39-42, 1988
A;Title: Evidence for a single glycan moiety in rabbit serum transferrin and location
A;Reference number: S02694; MUID:89005676; PMID:3169252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: protein
A;Residues: 19-45,'S',47-48,'Y',50 <GOD>
A;Cross-references: UNIPARC:UPI00001744A8
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A;Residues: 19-26,'X',28-36,'X',38-53 <CHU>
A;Cross-references: UNIPARC:UPI00001744A7
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A; Residues: 482-515, 'V', 517-544 <EVA>
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R;Chung, M.C.M.; Chan, S.L.; Shimizu, S.
Int. J. Biochem. 23, 609-616, 1991
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A; Title: Iron carrier proteins fa
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Residues: 19-36 <PIE>
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Pred. No. 7.5e-08;
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; PMID:2065820
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A;Molecule type: mRNA
A;Residues: 15-80;81-141;217-251;252-301 <CHE>
A;Residues: 15-80;81-141;217-251;252-301 <CHE>
A;Rose-references: UNIPROT:(92111; UNIPARC:UPI00000E773F; UNIPARC:UPI000016D098; UNIPARA;Rote: the authors translated the codon ACC for residue 61 as Tyr, TCC for residue 62 af R;Idzerda, R.L.; Behringer, R.R.; Theisen, M.; Huggenvik, J.I.; McKnight, G.S.; Brinster Mol. Cell. Biol. 9, 5154-5162, 1989
A;Title: Expression from the transferrin gene promoter in transgenic mice.
A;Reference number: A33482; MUID:90097932; PMID:2601714
A;Accession: A33482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Species: Mus musculus (house mouse)
C;Date: 30-Jun-1989 #sequence revision 05-Dec-1997 #text_ch
C;Accession: A28446; A33482; B28438
R;Chen, L.H.; Bissell, M.J.
J. Biol. Chem. 262, 17247-17250, 1987
A;Title: Transferrin mRNA level in the mouse mammary gland
A;Reference number: A28446; MUID:88086992; PMID:3693348
A;Accession: A28446
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A;Title: A growth-promoting factor for human myeloid leukemia cells from horse serum A;Reference number: S02145; MUID:89076897; PMID:2909248
A;Accession: S02145
                                                                                                                                                                                                                            A;Molecule type: mRNA
A;Residues: 86-216 <PEN>
A;Cross-references: UNIPARC:UPI000016CEB1; GB:J03299; GB:J02737; NID:g198847; PIDN:AAA39
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication
                                                                                                                                                                                                                                                                                                                                                                      R;Pentecost, B.T.; Teng, C.T.
J. Biol. Chem. 262, 10134-10139, 1987
A;Title: Lactotransferrin is the major estrogen inducible protein A;Reference number: A92596; MUID:87280033; PMID:3611056
A;Accession: B28438
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C;Keywords: duplication; glycoprotein; iron transport; metal binding; plasma
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-706/Product: transferrin #status experimental <WAT>
F;358-694/Domain: transferrin repeat homology <TRH2>
F;26-64,36-55,134-215,174-190,177-198,187-200,248-262,360-623,366-398,376-389,423-701,44
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A;Residues: 1-14;302-311 <IDZ>
A;Residues: 1-14;302-311 <IDZ>
A;Cross-references: UNIPARC:UPI0000177C57; UNIPARC:UPI0000177C58;
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A;Residues: 20-35,'X',37,'X',39-40,'X',43-44 <YOS:
A;Cross-references: UNIPARC:UPI0000177C56
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A;Molecule type: mR
A;Residues: 1-706 <
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                                                         TTEDSIAKIMNGEADAMSLDGG
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Pred. No. 4.8e-07;
                                                                                                      Score 92; DB 2;
Pred. No. 8e-07;
2; Mismatches
   216
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A;Note: sequence extracted from NCBI backbone (NCBIN:111151, NCBIP:111153) R;Lydon, J.P.; O'Malley, B.R.; Saucedo, O.; Lee, T.; Headon, D.R.; Conneel: Biochim. Biophys. Acta 1132, 97-99, 1992
A;Title: Nucleotide and primary amino acid sequence of porcine lactoferrin A;Reference number: S24173; MUID:92379101; pMID:1511016
A;Accession: S24173
                                                                                                                                                                                                                                                                                                                                                                                                                  R;Alexander, L.J.; Levine, W.B.; Teng, C.T.; Beattie, C.W. Anim. Genet. 23, 251-256, 1992
A;Title: Cloning and sequencing of the porcine lactoferrin cDNA A;Reference number: A45543; MUID:92367939; PMID:1503259
A;Accession: A45543
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A;Title: Isolation of transferrin from porcine gastric mucosa: comparison A;Reference number: A60520; MUID:90227903; PMID:2328366
A;Accession: A60520
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C;Species: Sus scrofa domestica (domestic pig)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: $01384; A60520; A61573
R;Baldwin, G.S.; Weinstock, J.
Nucleic Acids Res. 16, 8720, 1988
A;Title: Nucleotide sequence of porcine liver transferrin.
A;Reference number: $01384; MUID:88335629; PMID:3419934
A;Accession: $01384
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A;Residues: 1-8,'X', 10-18,'XE' <CHU>
A;Cross-references: UNIPARC: UPI0000174486
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron transport;
F;1-696/Product: transferrin #status predicted <MAT>
A;Molecule type: mRNA
A;Residues: 1-11,'W',13-50,'I',52-84,'G',86-120,'L',121-130,'I',132-282,'S',284-571,'Q',
A;Cross-references: UNIPARC:UPI000016C6E2; EMBL:M92089; NID:g164613; PIDN:AAA31102.1; PI
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Int. J. Biochem. 23, 609-616, 1991
A;Title: Purification of transferrins and lactoferrin using DEAE Affi-Gel Blue A;Reference number: A61573; MUID:91293379; PMID:2065820
A;Accession: A61573
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A;Residues: 1-696 <BAL>
A;Cross-references: UNIPROT:P09571; UNIPARC:UPI00001130C2; EMBL:X12386; NID:g2126; PIDN: A;Note: 308-Arg was also found
                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:P14632; UNIPARC:UPI0000177C55
A;Experimental source: mammary gland
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A; Residues: 1-8, /X', 10-11, /X', 13-15 <BA2>
A; Cross-references: UNIPARC:UPI0000174485
A; Experimental source: gastric mucosa
A; Experimental source: gastric mucosa
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A; Residues: 1-703 < ALE>
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A;Molecule type: mRNA
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;Species: Sus scrofa domestica (domestic pig)
;Date: 17-Feb-1994 #sequence_revision 17-Feb-1994 #text_change
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transferrin precursor - rat

N;Alternate names: lung-derived growth factor; siderophilin

C;Species: Rattus norvegicus (Norway rat)

C;Date: 16-Fab-1995 #sequence revision 12-May-1995 #text_change 09-Jul-2004

C;Accession: S49163; S54980; A30014; A14679; A53289; A30512; I52203

R;Escriva, H.; Pierce, A.; Coddeville, B.; Gonzalez, F.; Benaissa, M.; Leger, D.; Wierus submitted to the EMBL Data Library, January 1994

A;Description: Rat mammary gland transferrin: glycan structure, nucleotide sequence and A;Reference number: S49163

A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-695 < ESC>
A;Cross-references: UNIPROT:P12346; UNIPROT:Q63602; UNIPARC:UPI0000167A8E; EMBL:X77158;
A;Cross-references: UNIPROT:P12346; UNIPROT:Q63602; UNIPARC:UPI0000167A8E; EMBL:X77158;
A;Cross-references: UNIPROT:P12346; UNIPROT:Q63602; UNIPARC:UPI0000167A8E; EMBL:X77158;
A;Gross-references: Uniparcy, Jand transferrin: nucleotide sequence, phylogenetic analysis and g
A;Reference number: S54980; MUID:95234054; PMID:7717992

A;Accession: S54980; MUID:95234054; PMID:7717992
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A;Title: Transferrin messenger ribonucleic acid: molecular cloning and hormonal regulati A;Recession: A30014; MUID:87053639; PMID:3023031

A;Recession: MA0014

A;Molecule type: mRNA

A;Residues: 518-687, 'D', 689-692, 'TA', 695 < HUG>
A;Cross-references: UNIPARC:UPI0000170B4C; GB:M27966; NID:g207439; PIDN:AAA42267.1; PID:A;Cross-references: UNIPARC:UPI0000170B4C; GB:M27966; NID:g207439; PIDN:AAA42267.1; PID:Biol. Chem. 254, 12013-12019, 1979

J. Biol. Chem. 254, 12013-12019, 1979

A;Miller The synthesis and secretion of rat transferrin.

A;Reference number: A14679; MUID:80049855; PMID:500689

A;Molecule type: protein

A;Residues: 20-47 < CSCH-
A;Accession: A53289
A;Status: preliminary
A;Molecule type: protein
A;Mesidues: 89,'Y',91,'A
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C;Superiamily: transferrin; transferrin repeat homology
C;Superiamily: transferrin; transferrin; iron binding; metalloprotein; milk
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-703/Product: lactoferrin repeat homology <TRH1>
F;20-350/Domain: transferrin repeat homology <TRH1>
F;36-48/Region: antimicrobial
F;354-691/Domain: transferrin repeat homology <TRH2>
F;36-62,38-53,129-212,171-187,184-195,245-259,362-394,372-385,419-698,439-661,471-546,49
F;77,107,206,367/Binding site: iron (Asp. Tyr, Tyr, His) #status predicted
F;409,447,540,609/Binding site: iron (Asp. Tyr, Tyr, His) #status predicted
F;409,447,540,609/Binding site: iron (Asp. Tyr, Tyr, His) #status predicted
F;409,447,540,609/Binding site: carbonate (Arg) #status predicted
F;490/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                              A;Cross-references: UNIPARC:UPI0000177C51
R;Cavanaugh, P.G.; Nicolson, G.L.
R;Cavanaugh, P.G.; Nicolson, G.L.
J. Cell. Biochem. 47, 261-271, 1991
A;Title: Lung-derived growth factor that stimulates the A;Reference number: A53289; MUID:92165927; PMID:1791188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: mRNA
A; Residues: 1-695 < ES2>
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        91,'A',93-99,'V',101-102;'N',233,'AN',236-243;401-406,'N',408
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Pred. No. 2e-06;

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A;Note: sequence modified after extraction from NCBI backbone
A;Note: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
A;Pote: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
A;Pote: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
A;Pote: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
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B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
B;Pote: Sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, N
A;Experimental source: placenta A;Note: sequence extracted from NCBI backbone (NCBIP:12 R;Powell, M.J.; Ogden, J.E. Nucleic Acids Res. 18, 4013, 1990 A;Title: Nucleotide sequence of human lactoferrin cDNA. A;Reference number: S10324; MUID:90326549; PMID:2374734
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: UNIPARC:UPI000015C582; EMBL:X53961; NID:g34415; PIDN:CAA37914.1; R;Teng, C.T.; Liu, Y.; Yang, N.; Walmer, D.; Panella, T. Mol. Endocrinol. 6, 1969-1981, 1992
Mol. Endocrinol. 6, 1969-1981, 1992
A;Title: Differential molecular mechanism of the estrogen action that regulates lactor A;Reference number: A45401; MUID:93125571; PMID:1480183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Rey, M.W.; Woloshuk, S.L.; deBoer, H.A.; Pieper, F.R.
Nucleic Acids Res. 18, 5288, 1990
A;Title: Complete nucleotide sequence of human mammary gland lactoferrin
A;Reference number: S11228; MUID:90384839; PMID:2402455
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C;Species: Homo sapiens (man)
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997 #text change 08-Dec-2000
C;Accession: G01394; S11228; Ā45401; S10324; S15853; S20841; S07160; A61169;
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A;Molecule type: protein
A;Residues: 20-30;639-643,'KD',646,'LKACD' <PUR>
A;Cross-references: UNIPARC:UPI0000177C52; UNIPARC:UPI0000177C53
A;Cross-references: UNIPARC:UPI0000177C53
Biochem. Biophys. Res. Commun. 122, 960-965, 1984
A;Title: Synthesis of rat transferrin in Escherichia coli containing a recombinant bacter
                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: DNA
A; Residues: 1-15 < TEN>
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A; Residues: 1-148, 'T', 150-422, 'C', 424-711 <REY>
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A; Residues: 1-711 < CHO>
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A;Cross-references: UNIPARC:UP100000E5C48; GB:M26113; NID:g207437; PIDN:AAA42266.1;
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A;Accession: 152203
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R;Rey, M.W.; Woloshuk, S.L.; deBoer, H.A.; Pieper, F.R.
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A; Residues: 7-25, 'X', '
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Pred. No. 4.2e
2; Mismatches
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A31000;

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396 TTEDCIALVLKGEADAMSLDGGY 418

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A;Cross-references: GDB:119368; OMIM:150210

A,Map position: 3q21-3q23

C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron binding; milk
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-711/Product: lactotransferrin #status experimental <MAT>
F;21-356/Domain: transferrin repeat homology <TRH1>
F;360-699/Domain: transferrin repeat homology <TRH2>
F;360-699/Domain: transferrin repeat homology <TRH2>
F;360-699/Domain: cransferrin repeat homology <TRH2>
F;357,498/Binding site: carbohydrate (Asn) (covalent) #status experimental
F;358-400,378-391,425-706,447-669,479-554,513-527,524-537,647-652/Disulfide bonds: #status
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A;Molecule type: protein
A;Residues: 'G', 23-24', 'R', 26-27', 'XX', 30-32 <HOU>
A;Cross-references: UNIPARC:UPI000017448A
A;Experimental source: neutrophil granulocytes
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A;Cross-references: UNIPARC:UDI000016ABE2; EMBL:M18642; NID:g186815; PIDN:AAA86665.1; R;Panella, T.J.; Liu, Y.; Huang, A.T.; Teng, C.T.
Cancer Res. 51, 3037-3043, 1991
A;Title: Polymorphism and altered methylation of the lactoferrin gene in normal leukoc A;Title: Polymorphism and altered methylation of the lactoferrin gene in normal leukoc A;Reference number: A61169; MUID:91235214; PMID:1674448
A;Accession: A61169
A;Accession: A61169
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 3-701,'SMXPVN' <-PAN>
A;Residues: 3-701,'SMXPVN' <-PAN>
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A;Title: Lactoferrin: similarity to diamine oxidase and A;Reference number: S74119; MUID:97054624; PMID:8898921
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A;Experimental source: normal breast tissue
R;Metz-Boutigue, M.H.; JOlles, J.; Mazurier,
Eur. J. Biochem. 145, 659-666, 1984
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R;Rado, T.A.; Wei, X.; Benz Jr., E.J.
Blood 70, 989-993, 1987
A;Title: Isolation of lactoferrin cDNA from
A;Reference number: S07160; MUID:88001031; F
A;Accession: S07160
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A;Residues: 20-140,142-169,171-203,'L',205,'K',207-208,'K',210-385,'Q',387-391,'W',393.
A;Cross-references: UPIO0000174489
A;Cross-references: Circle (Control of the Control of
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A;Accession: S15853
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A; Molecule type: mRNA
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A;Residues: 20-31 <ST1>
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20-28,'X',30-31 <ST2>
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                                                                                                                                                          Similarity
TTEDSIAKIMNGEADAMSLDGGF
                                                                                                                                                    78.3%;
73.9%;
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Pred. No. 4.3e-06;
3; Mismatches 3
23
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lactoferrin precursor - mouse
N/Alternate names: lactotransferrin
C/Species: Mus musculus (house mouse
C/Date: 10-Sep-1999 #semmence remini
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C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-707/Product: lactotransferrin #status predicted <MAT>
F;358-695/Domain: transferrin repeat homology <TRH2>
F;494/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                         C;Keywords: duplication F;20-350/Domain: transferrin repeat homology <TRH1>
                                                                                                                                                                                                                                                                                                                                                                                                              Biochemistry 31, 12536-12542, 1992
A;Title: Purification and characterization of a carbonic
A;Reference number: 147228; MUID:93099129; PMID:1463741
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F;494/Binding site: carbohydrate
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J. Biol. Chem. 266, 21880-21885, 1991
A;Title: Characterization of estrogen-responsive mouse lactoferrin A;Reference number: A41205; MUID:92042099; PMID:1939212
A;Accession: A41205
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J. Biol. Chem. 262, 10134-10139, 1987
A;Title: Lactotransferrin is the major estrogen inducible protein of A;Reference number: A92596; MUID:87280033; PMID:3611056
A;Accession: A28438
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                                                                                                                                                                                                                                                                                                                    A; Molecule type: mRNA
A; Residues: 1-704 < ROU>
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A; Residues: 1-15 <LIU>
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A; Residues: 3-707 < PEN>
                                                                                                                                                                                                    Superfamily: transferrin; transferrin repeat homology; Keywords: duplication
                                                                                       Matches
                                                                                                                                   Query Match
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388
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                                                                                       18;
                                                                                                               Similarity
                                         TTEDSIAKIMNGEADAMSLDGGF 23
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Pred. No. 1.
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Pred. No. 8.9e-06;
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410
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C;Species: Gallus gallus (Chicken)
C;Species: Gallus gallus (Chicken)
C;Accession: A26845; A91115; Ā92229; A91116; A40674; B61573; A90282; S02476; A03262
C;Accession: A26845; A91115; Ā92229; A91116; A40674; B61573; A90282; S02476; A03262
R;Jeltsch, J.M.; Hen, R.; Maroteaux, L.; Garnier, J.M.; Chambon, P.
Nucleic Acids Res. 15, 7643-7645, 1987
A;Fitle: Sequence of the chicken ovotransferrin gene.
A;Ference number: A26845
A;MUID:88015826; PMID:3658709
A;Accession: A26845
A;MOID:8015826; PMID:3658709
A;Accession: A26845; MUID:88015826; PMID:3658709
A;Accession: A26845
A;Fitle: The complete nucleotide sequence of the chicken ovotransferrin mRNA.
A;Cross-reference number: A91115; MUID:82138851; PMID:7060577
A;Accession: A91115; MUID:82138851; PMID:7060577
A;Accession: A91115; MUID:82138851; PMID:7060577
A;Accession: A91115; MUID:82138851; PMID:7060577
A;Accession: A91115; MUID:82138851; PMID:7060577
A;Cross-references: UNIPARC:UPI00001744AB; EMBL:X02009
A;Note: the codons given for residues 132 (AAC) and 317 (UUC) are inconsistent with the R;Thibodeau, S.N.; Lee, D.C.; Palmiter, R.D.
J. Biol. Chem. 253, 371-3774, 1978
A;Reference number: A92229; MUID:78171533; PMID:649604
A;Accession: A92229; MUID:78171533; PMID:649604
A;Accession: A92229; MUID:78171533; PMID:649604
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C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 07-May-1999
C;Accession: JC2323
R;Le Provost, F.; Nocart, M.; Guerin, G.; Martin, P.
Biochem. Biophys. Res. Commun. 203, 1324-1332, 1994
A;Title: Characterization of the goat lctoferrin cDNA: assignment of the relevant Reference number: JC2323; MUID:94380047; PMID:8093048
A;Reference number: JC2323
A;Molecule type: mRNA
A;Residues: 1-708 <-LEP>
A;Cross-references: UNIPARC:UPI0000177C50
C;Superiamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein
F;359-656/Domain: transferrin repeat homology <-TRH2>
F;252,300,387,495,564/Binding site: carbohydrate (Asn) (covalent) #status predic
A;Reference number:
                                                                                                                                                                                                                             A; Molecule type: protein
A; Residues: 1-50; 54-82; 'V', 84-92; 102-146; 162-168; 170-228; 241-283; 289-333; 338-344; 350-351
A; Cross-references: UNIPARC: UPI0000118CCA; UNIPARC: UPI00001744AB; UNIPARC: UPI00001744B6; UNIPARC: UPI0000174B6; UNIPARC: UPI00001744B6; UNIPARC: UPI00001744B6; UNIPARC: UPI00001744B6; UNIPARC: UPI00001744B6; UNIPARC: UPI00001744B6; UNIPARC: UPI0000174B6; UNIPARC: UPI0000174B6; UNIPARC: UPI0000174B6; UNIPARC: UPI0000174B6; UNIPARC: UPI0000174B6; UNIPARC: UPI00000174B6; UNIPARC: UPI0000174B6; UNIPARC: UPI0000174B6; UNIPARC: UP
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A;Title: The primary structure of hen ovotransferrin.
A;Reference number: A91116; MUID:82138852; PMID:6895872
A;Accession: A91116
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A;Residues: 1-23 <THI>
A;Cross-references: UNIPARC:UPI00001744AC
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C;Comment: C;Comment: C;Comment: C;Comment: C;Genetics:
                 C;Species: Bos primigenius taurus (cattle)
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997 #text_change 09-Jul-2004
C;Accession: I45919; S14674; S14110; S18517; JT0595; S13097; S18518; S13881; R;Tsang, T.C.; Burns, D.K.; Wang, F.; Pan, Y.
FASEB J. 6, 233, 1991
A;Title: Cloning of a 80-kD advanced glycosylation end product (AGE) binding A;Reference number: I45919
A;Accession: I45919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; egg white; glycoprotein; iron binding; plasma
F;1-19/Domain: signal sequence #status experimental <SIC>
F;20-705/Product: transferrin #status experimental <MAT>
F;21-35/Domain: transferrin repeat homology <TR11>
F;355-692/Domain: transferrin repeat homology <TR12>
F;35-692/Domain: transferrin repeat homology <TR12>
F;35-692/Domain: transferrin repeat homology <TR12>
F;35-692/Domain: transferrin repeat homology <TR12>
F;39-63,134-216,179-193,190-201,247-261,367-399,424-699,440-662,473-549,497-690/Disulfide
F;492/Binding site: carbohydrate (Asn) (covalent) (partial) #status experimental
F;492/Binding site: carbohydrate (Asn) (covalent) (spartial) #status predicted
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A;Residues: 20-23:295-302:336-166;674-679,'T',681,'F',683-685,'N',687-705 <WIZ>A;Cross-references: UNIPARC:UPI00001744BE; UNIPARC:UPI00001744BF; UNIPARC:UPI00001744DF;
C;Comment: Ovotransferrin (conalbumin) and transferrin have identical protein components
crin is synthesized in the liver.
C;Comment: Ovotransferrin has a bacteriostatic function. Its concentration in avian egg v
C;Comment: Plasma apotransferrin promotes the oxidation of ferrous ions, which would othe
C;Comment: In electrophoretic and genetic studies, transferrin shows strong polymorphism,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Blochem. J. 116, 515-532, 1970

Blochem. J. 116, 515-532, 1970

A,Title: The amino acid sequences of cysteic acid-containing peptides from A,Reference number: A90246; MUID:70141846; PMID:4907959

A,Contents: annotation; disulfide bonds

R;Williams, J.; Moreton, K.

Blochem. J. 251, 849-855, 1988

A,Title: The dimerization of half-molecule fragments of transferrin.

A,Reference number: S02476; MUID:88326225; PMID:3415649

A,Accession: S02476
                                                                                                                                                                                                                                     N;Alternate names:
C;Species: Bos prin
C;Date: 31-Mar-1992
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A; Residues: 480-582 «KIN»
A; Cross-references: UNIPARC: UPI00001744BD
A; Cross-references: UNIPARC: UPI00001744BD
COLORD TO THE SEC. 523 1070
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Int. J. Biochem. 23, 609-616, 1991
A;Title: Purification of transferrins and lactoferrin using
A;Reference number: A61573; MUID:91293379; PMID:2065820
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A; Residues: 20-28, 'X', 30-38, 'X', 40-44 <GEN>
A; Cross-references: UNIPARC: UPI00001744BB
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A;Residues: 20-28,'X',30-38,'X',40-43,'S'
A;Cross-references: UNIPARC:UPI00001744BC
A;Status: translated from GB/EMBL/DDBJ
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A; Molecule type: mRNA
A; Residues: 1-65, 'PG', 68-296, 'S', 298-339, 'A', 341-708 <GOO>
A; Cross-references: UNIPARC: UPI0000174495; GB:M63502
A; Note: the authors translated the codon CCG for residue 66 at R; Mead, P.E.; Tweedie, J.W.
Nucleic Acids Res. 18, 7167, 1990
A; Title: CDNA and protein sequence of bovine lactoferrin.
A; Reference number: S13097; MUID:91088328; PMID:2263492
A; Accession: S13097
A; Molecule type: mRNA
A; Residues: 28-33, 'DS', 36-38, 'P', 40-708 <MEA>
A; Cross-references: UNIPARC: UPI0000174496; EMBL:X54801
                                                                                                             A;Residues: 20-27,'X',29-37,'X',39-54,'X',56-59 <REJ>
A;Cross-references: UNIPARC:UPI00001744A0
R;Bellamy, W.; Takase, M.; Yamauchi, K.; Wakabayashi, H.; Kawase, Biochim. Biophys. Acta 1121, 130-136, 1992
A;Title: Identification of the bactericidal domain of lactoferrin. A;Reference number: $21756; MUID:92287941; PMID:1599934
A;Accession: $21756
A;Molecule type: protein
A;Residues: 36-60 <BEL-
A;Cross-references: UNIPARC:UPI00000475A8
B;Cross-references: UNIPARC:UPI00000475A8
R;Shimazaki, K.; Tanaka, T.; Kon, H.; Oota

J. Dalry Sci. 76, 946-955, 1993

A;Title: Separation and characterization o.

A;Reference number: A56659; MUID:93253156;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Rejman, J.J.; Hegarty, H.M.; Hurley, W.L.
Comp. Biochem. Physiol. B 93, 929-934, 1989
A;Title: Purification and characterization of bovine lactoferrin
A;Reference number: PLO148; MUID:90031466; PMID:2805645
A;Accession: PL0148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: protein
A;Residues: 20-47;59-66;132-139;256-277;278,305-332;343-351;361-363;586,587-589;598-619
A;Cross-references: UNIPARC:UPI0000174493; UNIPARC:UPI0000174497; UNIPARC:UPI0000174498
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A;Residues: 20-35;82-114;148-163,'PP',166-178,'V','P';183-190;205-212;230-239;304-339;59
A;Cross-references: UNIPARC:UPI000017448C; UNIPARC:UPI000017448D; UNIPARC:UPI000017449B;
493; UNIPARC:UPI0000174494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Molecule type: mRNA
A;Residues: 28-38,'P', 40-86,'C', 88-708 <ME3>
A;Cross-references: UNIPARC:UPI000017449F; EMBL:X54801
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A;Residues: 3-144,'V',146-339,'A',341-438,'Y',440-513,'R',515-708
A;Cross-references: UNIPARC:UPI000017448B; EMBL:X57084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Molecular cloning and sequence analysis of bovine lactotransferrin A;Reference number: S14110; MUID:91160550; PMID:2001696 A;Accession: S14110
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                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: protein A; Residues: 20-27, 'X', 29-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Reference number: S13881
A; Accession: S13881
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         49D; UNIPARC: UPI000017449E
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A; Accession: S14674
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Biophys. Res. Commun. 180, 75–84, 1991
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characterization of the C-terminal 659; MUID:93253156; PMID:8486845
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                                                                                   Kon, H.; Oota,
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                                                                                      K.; Kawaguchi,
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                            half
                                                                                      A.; Maki, Y.;
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A;Molecule type: protein
A;Molecule type: protein
A;Residues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Residues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Cross-references: UNIPARC:UPI00001744Al; UNIPARC:UPI00001744A2; UNIPARC:UPI000
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron, iron binding; metalloprotein; milk
F;1-19/Domain: signal sequence #status predicted <GIG>
F;20-708/Product: lactotransferrin #status experimental <MAT>
                                                                                                                                                                                                                                                                                               C;Accession: TILLYS (C;Accession: P. R;Kvingedal, A.M.; Rorvik, K.A.; Alestrom, P. Mol. Marine Biol. Biotechnol. 2, 233-238, 1993 Mol. Marine Biol. Biotechnol. 2, 233-238, 1993 A;Title: Cloning and characterization of Atlantic salmon A;Title: Cloning and Characterization and Character
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT
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R;Moskaitis, J.E.; Pastori, R.L.; Schoenberg, D.R.

Nucleic Acids Res. 18, 6135, 1990

A;Title: The nucleotide sequence of Xenopus laevis transferrin mRNA

A;Reference number: S12100; MUID:91045087; PMID:2235503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Xenopus laevis (African clawed frog)
C;Date: 21-Nov-1993 #sequence_revision 10-Nov-1995
C;Accession: S12100
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                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-690 < KVI>
                                                                                                                                                                                                                                                               A; Reference number: Z17332; MUID: 94122797; A; Accession: T11749
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                                                                        A; Experimental source: liver
                                                                                                         A; Cross-references: UNIPROT: P80426;
                                                                                                                                                                                                                          A; Status: preliminary; translated
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A; Residues: 1-717 < MOS>
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                                ;Superfamily: transferrin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ransferrin - Atlantic salmon
;Species: Salmo salar (Atlantic salmon)
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56.5%;
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Pred. No. 0.0005;
6; Mismatches
                                                                                                                                                                                                                                  from GB/EMBL/DDBJ
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Pred. No. 0.
                                                                                                                 UNIPARC: UPI0000137362;
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0.0046;
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                                                                                                                 EMBL:L20313; NID:g431609;
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., McCEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., McTley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahby J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
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RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
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Rieder M.J., Carrington D.P., da Ponte S.
Ahearn M.O., Kuldanek S.A., Rajkumar N.,
Nickerson D.A.;
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Fairbanks V.F.;
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Williams P., Dehoff B., Dunn P., O'Neal K.L.,
"A cloned gene for human transferrin.";
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01-OCT-1989, sequence version
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                                                                                                                                                                                                                                                                                                                                                                                               "SeattleSNPs. NHLBI HL66682 program for genomic applications, FHCRC, Seattle, WA (URL: http://pga.gs.washington.edu)."; submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
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h E.J., Yi Q.,
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McGillivray R.T.A., Mendez E., Shewale Lineback-Zins J., Brew K.; "The primary structure of human serum seven cyanogen bromide fragments and t structure.";
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Park I., Schaeffer E., Sidoli A.,
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                      Tsuchida S., Ikemoto S., Submitted (APR-1998) to t
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or
                                                                                               Namekata K., Oyama F., Imagawa
"Human transferrin (Tf): a sing
                                                                                                             MEDLINE=97418135; PubMed=9272172; DOI=10.1007/6004390050533;
Namekata K., Oyama F., Imagawa M., Ihara Y.;
                                                                                                                                     TISSUE-Brai
                                                                                                                                                                         "Alternative splicing prevents transferrin differentiation of a human oligodendrocyte J. Neurosci. Res. 61:388-395(2000).
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MEDLINE=84153910; PubMed=6322780;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Functional prediction of the coding sequences of 33 new
by analysis of cDNA clones from human fetal liver.";
Submitted (JAN-1999) to the EMBL/GenBank/DDBJ databases.
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"The 5' region of the human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Organization of the human transferrin originated by gene duplication.";
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c. Natl. Acad. Sci. U.S.A.
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24-MAY-2005,
                                          24-MAY-2005, sequence version 1.
07-FEB-2006, entry version 4.
Transferrin variant (Fragment)
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MEDLINE=9843436; PubMed=9760232; DOI=10.1021/bi9812064;
MEDLINE=98.34369; PubMed=9760232; DOI=10.1021/bi9812064;
MEDLINE=98.34369; PubMed=9760232; DOI=10.1021/bi9812064;
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MEDLINE=98.34369; DOI=10.1021/bi9812064,
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MEDLINE=98272665; PubMed=9609685; DOI=10.1021/bi980355j;

MAGGIllivray R.T.A., Moore S.A., Chen J., Anderson B.F., Ba
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Woodworth R.C., Brayer G.D., Baker E.N.;

"Two high-resolution crystal structures of the recombinant
human transferrin reveal a structural change implicated in
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Moore R.
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Ershova E.S., Egorov T.A., Musalyamov
"The major protein expression profile
database of human heart.";
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Duguid J.R., Bohmont C.W., Liu N.G., Tourtellotte W.
"Changes in brain gene expression shared by scrapie
disease.";
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J. Proteome Res. 4:2070-2080(2005).
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Lineback-Zins J., Brew K.;
  Eukaryota;
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Kovalyov L.I., Shishkin S.S., Efimochkin
                      Homo sapiens
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Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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                             (Human)
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                                                                                                                                                                    PRELIMINARY;
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PROSITE; PS00205; TRANSFERRIN-2; 2
PROSITE; PS00206; TRANSFERRIN-2; 2
PROSITE; PS00207; TRANSFERRIN-3; 2.
NON TER
SEQUENCE 698 AA; 77080 MM; A541
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Q4RSM1;
19-JUL-2005, integrated into UniProtKB/TrEMBL.
19-JUL-2005, sequence version 1.
19-JUL-2005, entry version 5.
Brain cDNA, clone: QccE-13766, similar to human transferrin Macaca fascicularis (Crab eating macaque) (Cynomolgus monke) Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleoia, Euarchontoglires; Primates; Catarrhini; Cercogithecidae; Cercopithecinae; Macaca.
PubMed=15944441; DOI
Osada N., Hirata M.,
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GO; GO:000819; F:ferric iron binding; IEA.
GO; GO:0006879; P:iron ion homeostasis; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60.
PANMHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 2.
                                                                                                     NCBI_TaxID=9541;
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Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases
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  DOI=10.1093/molbev/msi187; M., Tanuma R., Kusuda J.,
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SEQUENCE 698 AA; 77010 MW; F19A15A7C898399B CRC64;
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GO; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase_S60.
PANTHER; PTHR11485; Peptidase_S60; 1.
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GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008679; P:iron ion homeostasis; IEA.
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InterPro; IPR001156; Peptidase_S60.
PANTHER; PTHR11485; Peptidase_S60; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                    Rinaudo J.A.S., Gerin J.L.; Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
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P19134; O46514;
01-NOV-1990, integrated into UniProtKB/Swiss-Prot.
15-JUL-1999, sequence version 4.
07-MAR-2006, entry version 61.
Serotransferrin precursor (Transferrin) (Siderophilin)
                                                                                        MEDLINE=89026775; PubMed=3179277;
Bailey S., Evans R.W., Garratt R.C., Gorinsky B., I
Horsburgh C., Jhoti H., Lindley P.F., Mydin A., Sai
"Molecular structure of serum transferrin at 3.3-A
Biochemistry 27:5804-5812(1988).
         "High-resolution X-ray studies on rabbit serum preliminary structure analysis of the N-termina A resolution.";
                                                                                                                                                                                                                                    MEDLINE=89005676; PubMed=3169252; DOI=10.1016/0014-5793(88)80221-7; Evans R.W., Aitken A., Patel K.J.;
                                                                                                                                                                                                                                                                                                                                                                                               encoding gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=91274362; PubMed=2054387; DOI=10.1016/0167-4781(91)90021-D; Banfield D.K., Chow B.K.-C., Funk W.D., Robertson K.A., Umelas T.M., Woodworth R.C., Macgillivray R.T.A.; "The nucleotide sequence of rabbit liver transferrin cDNA.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             binding globulin)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RABIT
                                                                                                                                                                      X-RAY CRYSTALLOGRAPHY (3.3 ANGSTROMS).
                                                                                                                                                                                              "Evidence for a single glycan moiety in rabbit location of the glycan within the polypeptide cFBBS Lett. 238:39-42(1988).
                                                                                                                                                                                                                                                                                                                   "Isolation, characterization and N-terminal amino-acid
                                                                                                                                                                                                                                                                                                                                 Godovac-Zimmermann J.;
                                                                                                                                                                                                                                                                                                                                             MEDLINE=88209278;
                                                                                                                                                                                                                                                                                                                                                                                     Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=New
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE [MRNA].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia; Eutheria;
                                                                                                                                                          TISSUE=P
                                                                                                                                                                                                                                                                PROTEIN SEQUENCE OF 483-545
                                                                                                                                                                                                                                                                                                                                                         PROTEIN SEQUENCE OF 20-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
Crystallogr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            392
                                                 CRYSTALLOGRAPHY (2.3 ANGSTROMS)
R., Garratt R.C., Gorinsky B.,
                                                                                                                                                                                                                                                                                           Chem.
                                                                                                                                                                                                                                                                                                     transferrin."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PS00206; TRANSFERRIN_2;
PS00207; TRANSFERRIN_3;
694 AA; 76466 MW; 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTEDSIAKIMNGEADAMSLDGGF 23
                                                                                                                                                           lasma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STEDCIAKIMNGEADAMSLDGGY 414
                                                                                                                                                                                                                                                                                                                                                                                     (OCT-1997) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE [GENOMIC DNA].
Zealand white;
A.A., Thepot D., Puissan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cuniculus (Rabbit).
Metazoa; Chordata; Craniata; Vertebrata;
utheria; Euarchontoglires; Glires; Lagomo
                                                                                                                                                                                                                                                                                          Hoppe-Seyler 369:93-96(1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
 W
                                                                                                                                                                                                                                                                                                                                              PubMed=3365331;
46:763-771(1990)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          89.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Puissant
                                                                                                                                                                                                                                                                                                                                                                                     EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 103;
Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; 2.
3; 2.
40053F7DC1CFCA87 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                              of the rabbit transferrin
                          N-terminal half-molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                        Cajero-Juaerez
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .9e-07;
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                                                                                                                                                                                                                                                                                                                                                                                     databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          brata; Euteleostomi;
Lagomorpha; Leporidae;
                                     Lindley P.F.;
transferrin:
                                                                                                                                                                                                                            serum transferrin
                                                                                                       3., Hasnain S.,
Sarra R., Wats
.3-A resolution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
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                                                                                                        Watson
ution.";
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DR EMBL; X58533; CAA41424.1; -; mRNA.

DR EMBL; AF031612; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031612; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031613; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031614; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031615; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031616; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031616; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031619; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031619; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031619; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031621; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031622; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031622; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031623; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031624; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031627; AAB94136.1; JOINED; Genomic DNA.

DR EMBL; AF031628; AAB94136.1; JOINED; Genomic
                                    DOMAIN
DOMAIN
METAL
META
                                                                                                                                                                                                                                                                                                                                                                                                                                    Transport.
SIGNAL
CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -i- FUNCTION: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.

-i- SUBUNIT: Monomer.
-i- SUBCILULAR LOCATION: Secreted protein.
-i- TISSUE SPECIFICITY: Expressed by the liver and secreted in plasma.
-i- MISCELLANEOUS: The peptidase S60 domains do not have protease function as the catalytic residues are missing.
-i- SIMILARITY: Belongs to the transferrin family.
-i- SIMILARITY: Contains 2 peptidase S60 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Copyrighted Distributed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the UniProt Consortium, see http://www.uniprot.org/termsder the Creative Commons Attribution-NoDerivs License
                                          Serotransferrin.
/FTId=PRO_000035717.
Peptidase 560 2.
Iron 1.
Iron 1.
Iron 1.
Iron 2.
Iron 3.
Iron 2.
Iron 3.
Iron 4.
Iron 4.
Iron 4.
Iron 4.
Iron 4.
Iron 6.
Iron 1.
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Best Local S
Matches 20
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DIS
                                                                                 l Similarity
20; Conserv
      Conservative
                                                                                 87.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             V -> I.
Missing (in Ref. 1).
K -> S (in Ref. 3).
P -> Y (in Ref. 3).
      Score 101; DB 1;
Pred. No. 1.8e-06;
1; Mismatches 2
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                                          Length 695;
        Indels
      0;
      Gaps
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0

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TTEDSIAKIMNGEADAMSLDGGF

23

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RESULT
TRFE_HC
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PÉAM; PF00405; Transfell.

PINTS; PR00405; TRANSFERRIN.

PRINTS; PR004205; TRANSFERRIN 1; 2.

PROSITE; PS00205; TRANSFERRIN 2; 2.

PROSITE; PS00206; TRANSFERRIN 3; 2.

PROSITE; PS00207; TRANSFERRIN 3; 2.
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   DOMAIN
METAL
METAL
METAL
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METAL
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                                                                                                                                                                                                                                                                                                                     EMBL; M69020; AAA30958.1; -; mRNA.
EMBL; U21127; AAA63684.1; -; mRNA.
PIR; S33761; S33761.
HSSP; P02787; LA8E.
                                                                                                                                                                                                                                                                                                                                                                                            Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9796;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-AUG-1992, sequence version 1.
21-FEB-2006, entry version 48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRFE_HORSE STANDARD; PRT; 706 AA.
P27425;
O1-AUG-1992, integrated into UniProtKB/Swiss-Prot.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      McDowell K.J., Adams M.H., Baker C.B.;
Submitted (MAR-1995) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            binding globulin).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Serotransferrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Extraembryonic tissue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE [MRNA].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE [MRNA]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Name=TF
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                                                                                                                                                                                                                                                                                                                                                                                                                                   SUBUNIT: Monomer.

SUBCELLULAR LOCATION: Secreted protein.

TISSUE SPECIFICITY: Expressed by the liver and E
TISSUE SPECIFICITY: Expressed by the liver and E
MISCELLANEOUS: The peptidase S60 domains do not
function as the catalytic residues are missing.

SIMILARITY: Belongs to the transferrin family.

SIMILARITY: Contains 2 peptidase S60 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FUNCTION: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.
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                  23
363
79
111
209
270
413
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PubMed=8504171; DOI=10.1016/0167-4781(93)90186-H
    349
691
79
111
209
270
413
449
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Chordata; Craniata; Vertebrata;
Laurasiatheria; Perissodactyla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (Transferrin) (Siderophilin)
                                                                                       By similarity.
Serotransferrin.
/FTId=PRO_000035714.
Peptidase S60 1.
Peptidase S60 2.
    Iron
Iron
Iron
Iron
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(By similarity).

(By similarity).

(By similarity).

(By similarity).

(By similarity).

(By similarity).
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Equidae; Equu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      have
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P09571;

01-JUL-1989, integrated into Unif

01-FEB-1991, sequence version 2.

21-FEB-2006, entry version 59.
                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                  Query Match
Best Local
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DISULFID
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DISULFID
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DISULFID
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METAL
BINDING
BINDING
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                                  Nucleic [2]
                                                                                                                                                                                                                       BIG
B LI
PROTEIN SEQUENCE OF 1-20.
MEDLINE=91293379; PubMed=2065820;
Chung M.C., Chan S.L., Shimizu S.;
"Purification of transferrins and lactoferrin using DEAE affi-gel
                                           MEDLINE-88335629; PubMed=3419934;
Baldwin G.S., Weinstock J.;
"Nucleotide sequence of porcine liver transferrin.";
Nucleic Acids Res. 16:8720-8720(1988).
                                                                                                     NCBI_TaxID=9823;
                                                                                                                        Eukaryota;
Mammalia;
                                                                                                                                         Sus scrofa
                                                                                                                                                  Name=TF;
                                                                                                                                                           globulin).
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                                                                               TISSUE=Liver;
                                                                                      NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                         394
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                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                         STEDCIAKIVKGEADAMSLDGGF 416
                                                                                                                       fa (Pig).
a; Metazoa;
Eutheria;
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26
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134
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3766
3766
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480
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480
482
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                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
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                                                                                       [MRNA]
                                                                                                                                                                                                                                                                                                   83.5%;
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W
                                                                                                                                                                                                                                                                                                                                  N-linked (GlCNA
By similarity.
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Iron 2 (By s
Carbonate 1
Carbonate 1
                                                                                                                                                                                                                                                                                                   Score 96;
Pred. No.
                                                                                                                                                                                                                                                                                                                           By similarity.
By similarity.
By similarity.
By similarity.
By similarity.
By similarity.
1A0FA566C0409DBA CRC64;
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Carbonate 2
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                                                                                                                                                                   (Siderophilin) (Beta-1
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1.1e-05;
2;
                                                                                                                                                                                                               696 AA.
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similarity)
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(By similarity).
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PDB; 1H76; X-ray; A=1-696.
InterPro; IPR001156; Peptidase_S60; 1.
PANTHER; PTHR11485; Peptidase_S60; 1.
Pfam; PF00405; Transferrin; 2.
PRINTS; PR00422; TRANSFERRIN.
SMART; SM00094; TR FEB; 2.
PROSITE; PS00205; TRANSFERRIN_1; 2.
PROSITE; PS00205; TRANSFERRIN_2; 2.
PROSITE; PS00207; TRANSFERRIN_3; 2.
                                      BINDING
BINDING
                                                                                                              DOMAIN
METAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -I- FUNCTION: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.

-I- SUBCELLULAR LOCATION: Secreted protein.
-I- TISSUE SPECIFICITY: Expressed by the liver and secreted in plasma.
-I- MISCELLANEOUS: The peptidase S60 domains do not have protease function as the catalytic residues are missing.
-I- SIMILARITY: Belongs to the transferrin family.
-I- SIMILARITY: Contains 2 peptidase S60 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=90227903; PubMed=2328566; Baldwin G.S., Bacic T., Chandler R., Grego B., Simpson R.J., Toh B.H., Weinstock J.; "Isolation of transferrin from porcine gastric porcine serum transferrin."; Comp. Biochem. Physiol. 95B:261-268(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             blue.";
Int. J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Copyrighted by the UniProt Consortium, Distributed under the Creative Commons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           serum transferrins at resolutions Acta Crystallogr. D 58:70-80(2002)
                BINDING
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S01384; S01384.
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STRAIN=C578L/6J; TISSUE=Mammary gland;
PubMed=16141072; DOI=10.1126/science.1112014;
Carrinci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda 1 Oyama R., Ravasi T., Lenhard B., Wells C., Kodzius R., Shimokawa K., Bajic V.B., Brenner S.E., Batalov S., Forrest A.R., Zavolan M., Davis M.J., Wilming L.G., Aidinis V., Allen J.R., Bailey T.L., Ambesi-Impiombato A., Apweiler R., Aturaliya R.N., Bailey T.L., Bansal M., Baxter L., Beisel K.W., Bersano T., Bono H., Chalk A.M., Chiu K.P., Choudhary V., Christoffels A., Clutterbuck D.R.,
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                                                                                                                                                                                                Serotransferrin p
binding globulin)
Name=Tf; Synonyms
                                                                                                                                                                                                                06-JUN-2002, integrated into UniProtKB/Swiss-Prot.
01-DBC-2001, sequence version 1.
07-MAR-2006, entry version 44.
Serotransferrin precursor (Transferrin) (Siderophi
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Q92111; Q35421; Q61803;
Q922C0;
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                                                                                                      production.
                                                                                                                              STRAIN=BALB/c;
                                                                                                                                                                                         Mus musculus (Mouse).
                                                                             NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
                                                                                             Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases
                                                                                                                        Lai D.-Z.;
                                                                                                                                         NUCLEOTIDE
                                                                                                                                                      NCBI_TaxID=10090;
                                                                                                              'Construction of a robust CHO cell-line for biopharmaceutical
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B/c; TISSUE=Liver;
                                                                                                                                                                                                                                                                                                                                                                               80.0%;
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   pregnancy and J. Biol. Chem.
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RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G., RA fletcher C.F., Fukushima T., Furuno M., Futaki S., Gariboldi M., Rad Fletcher C.F., Fukushima T., Furuno M., Futaki S., Gariboldi M., Rad Georgii-Hemming P., Gingeras T.R., Gojobori T. Green R.E., RA Hill D., Huminiecki L., Iacono M., Ikeo K., Iwama A., Ishikawa T., RA Hill D., Huminiecki L., Iacono M., Ikeo K., Iwama A., Ishikawa T., RA Kitamo H., Kollias G., Krishnan S.P., Kruger A., Kummerfeld S.K., RA Kurochkin I.V., Lareau L.F., Lazarevic D., Lipovich L., Liu J., RA Kurochkin I.V., Lareau S., Madan Babu M., Madera M., Marchionni L., RA Kurochkin I.V., Lareau S., Mishi H., Mignone F., Miyake S., Morris K., RA Matsuda H., Matsuzawa S., Nishikawa S., Nori F., Ohara O., Olazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavesi G., Pesole G., Ra Nilsson R., Nishikawa S., Nori F., Ohara O., RA Petrovsky N., Piazza S., Reed J., Reid J.F., Ring B.Z., Ringwald M., Rashibata Y., Shimada H., Sandelin A., Schneider C., Schiguchi K., Semple C.A., Seno S., Seesa L., Sheng Y., Ra Shibata Y., Shimada H., Shimada K., Silva D., Sinclair B., Sperling S., Stupka E., Sugiura K., Sultana R., Takenaka Y., Taki K., Ra Tammoja K., Tang S., Taylor M.S., Tegner J., Telchmann S.A., Ra Yamanishi H., Zabarovsky E., Zhu S., Zimmer A., Hide W., Bult C., Ra Wahlestedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y., Ra Yamanishi M., Teasdale R.D., Liu E.T., Brusic V., Ouackenbush J., Ra Tammoja K., Tang S., Taylor M.S., Tegner J., Telchman S.A., Ra Yamanishi M., Kondo S., Konno H., Nakano K., Ninomiya N., Ra Tagami M., Waki K., Watahiki A., Okamura-Oho Y., Suzuki H., Kawai J., Ra Hayashira N., Waki K., Watahiki A., Okamura-Oho Y., Suzuki H., Kawai J., Ra Hayashira N., Watahiki K., Watahiki H., Kawai J., RX MEDLINE=22385257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RRA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altechul S.F. Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altechul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Cassavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human
"Generation and initial analysis of more than 15,000 full-length human "The transcriptional landscape of the mammalian Science 309:1559-1563(2005). "Comparative sequence analysis MEDLINE=98284323; PubMed=9621303; DOI=10.1002/(SICI)1098-2795(199807)50:3<273::AID-MRD3>3.3.CO;2-C; Hayashizaki Y.; "Transferrin mRNA level in the mouse pregnancy and extracellular matrix."; Chen L.-H., Bissell M.J., STRAIN=BALB/c and mouse cDNA sequences."; TISSUE=Liver; NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA]. MEDLINE=88086992; NUCLEOTIDE SEQUENCE OF NUCLEOTIDE SEQUENCE OF 1-11. hormonal Acad. Dev. Sci. U.S.A. PubMed=3693348; 50:273-283 (1998) regulation 99:16899-16903 (2002). of the 462-496 mammary gland is mouse and human transferrin transferrin promoter in Ser AND 526-575 genome."; regulated Sertoli γģ

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InterPro;
InterPro;
PANTHER; PTHR114b5,
PANTHER; PTHR114b5,
PFIAM; PF00405; Transferrin,
PRINTS; PR0042; TRANSFERRIN.
SMART; SM00094; TR FER; 2.

R PROSITE; PS00205; TRANSFERRIN 1; 1.
PROSITE; PS00206; TRANSFERRIN 2; 2.

OR PROSITE; PS00207; TRANSFERRIN 3; 2.

OR PROSITE; PS00207; Transport; Tron; Iron transport; Met "''''' on; Repeat; Signal; Transport; Met Signal; Transport; Met Serottansferrin.

Serottansferrin.

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EMBL; AF027336; AAB84034.1; -; Genomic
EMBL; M23014; AAA40489.1; -; mRNA.
EMBL; M23015; AAA40490.1; -; mRNA.
EMBL; M23016; AAA40491.1; -; mRNA.
EMBL; S67217; AAB28966.2; -; mRNA.
EMBL; J03299; AAA39438.1; -; mRNA.
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DOMAIN
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                                                                                                                                                                                                                                                                                                                                               MGI; MGI:98821; Trf.
GO; GO:0030139; C:endocytic vesicle; IDA.
GO; GO:0005768; C:endosome; IDA.
GO; GO:0005615; C:extracellular space; TAS.
GO; GO:0005615; C:extracellular space; TAS.
GO; GO:0005615; Peptidase $60.
PANTHER; PTHR11485; Peptidase $60; 1.
Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                        PIR; A28446; A28446.
Ensembl; ENSWISG00000032554; Mus musculus.
MGI; MGI:98821; Trf.
GO; GO:0030139; C:endocytic vesicle; IDA.
GO; GO:0005768; C:endosome; IDA.
GO; GO:0005615; C:extracellular space; TAS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Distributed
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MEDLINE=87280033; PubMed=3611056;
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MEDLINE=94068311;
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NUCLEOTIDE SEQUENCE OF 268-307.
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SUBCELLULAR LOCATION: Secreted protein.
TISSUE SPECIFICITY: Expressed by the liver a
MISCELLANEOUS: The peptidase $60 domains do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIMILARITY:
SIMILARITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.
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AK085754; BAC39532.1; -; mRNA.
BC012313; AAH12313.1; -; mRNA.
BC022986; AAH22986.1; -; mENA.
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Peptidase_S60 2.
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PubMed=16141072; DOI=10.1126/science.1112014;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=C57BL/6J; TISSUE=Bone marrow;
MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
Carninci P., Hayashizaki Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodent
Muroidea; Muridae; Murinae; Mus.
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RX. MEDLINE=22354633; PINSUE=BORE MAZIOW;
RX MEDLINE=22354633; Pubmed=12466551; DOI=10.1038/nature01266;
RA Nikaido I., Osato N., Kasukawa T., Adachi J., Bono H., Kiyosawa H.,
RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
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RA Schriml K., Thill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml I.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Frazer K.S.,
RA Grimmond S., Gustinoich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Werardo R., Wagner L., Wallestedt C., Wang Y., Watanabe Y., Wells C.,
RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang I.,
RA Milming L.G., Wynshaw-Boris A., Yanagisawa M., Sakazime N., Sakot K.,
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
RA Hara A., Hashizume W., Imotani K., Ishina K., Shinagawa I.,
RA Niyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa B.,
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA Nanishi A., Waterston R., Lander E.S., Rogers J.,
RA Nanishi A., Schoki K., Karanscribtome based on functional annotation of
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Liuni S., McWilliam S., Madan Babu M., Madera M., Marchionni L.,
Ra Matsudah H., Matsuzawa S., Miki H., Mipnone F., Miyake S., Morris K.,
Ra Mottagui-Tabar S., Mulder N., Nakano N., Nakauchi H., Ng P.,
Nishiquchi S., Nishikawa S., Nori F., Ohara O.,
Nilsson R., Nishiquchi S., Nishikawa S., Nori F., Ohara O.,
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Na Okazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavesi G., Pesole G.,
Petrovsky N., Piazza S., Reed J., Reid J.F., Ring B.Z., Ringwald M.,
Ra Okazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavesi G., Pesole G.,
Petrovsky N., Piazza S., Reed J., Reid J.F., Ring B.Z., Ringwald M.,
Ra Post B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
Ra Rost B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
Ra Rost B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
Ra Rost B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
Ra Sperling S., Stupka E., Sugiura K., Silva D., Sinclair B.,
Sperling S., Stupka E., Sugiura K., Silva D., Sinclair B.,
Ra Shibata Y., Sandelin S., Taylor M.S., Tegner J., Teichmann S.A.,
Ra Tammoja K., Tan S.L., Tang S., Taylor M.S., Tegner J., Teichmann S.A.,
Ra Grimmod S.M., Tans S.L., Tang S., Taylor M.S., Tegner J., Teichmann S.A.,
Ra Grimmod S.M., Teasdale R.D., Liu E.T., Brusic V., Quackenbush J.,
Ra Grimmond S.M., Teasdale R.D., Liu E.T., Brusic V., Quackenbush J.,
Ra Allescedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Mahlescedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Grimmond S.M., Tang S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Grimmond S.M., Tang S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Mahlescedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Mahlescedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Mahlescedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Mahlescedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
Ra Mahlescedt C., Mattick 
NUCLEOTIUE SEVENTE TISSUE=Bone marrow;
STRAIN=C57BL/6J; TISSUE=Bone marrow;
MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
MEDLINE=21085660, PubMed=11217851; DOI=10.1038/35055500;
Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Kawai J., Shinagawa A., Fukunishi Y., Konno H., Adachi J., Fukuda Arakawa T., Hara A., Fukunishi Y., Konno H., Kondo S., Yamanaka Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka Aizawa K., Izawa M., Nishi K., Bono H., Kasukawa T., Saito
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PubMed=16141073;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "The transcriptional landscape Science 309:1559-1563(2005).
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d=16141073; DOI=10.1126/science.1112009;

denome Exploration Research Group, and Genome Science Group

me Network Core Team) and the FANTOM Consortium;

sense Transcription in the Mammalian Transcriptome.";

ice 309:1564-1566(2005).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 full-length cDNAs."; 420:563-573(2002).
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Gojobori T.,
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Query Match
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GO; GO:0030139; C:endocytic vesicle; IDA.
GO; GO:0005768; C:extracellular space; RCA.
GO; GO:0005615; C:extracellular space; RCA.
GO; GO:0006819; F:ferric iron binding; RCA.
GO; GO:0006879; P:iron ion homeostasis; RCA.
GO; GO:0006826; P:iron ion transport; RCA.
Interpro; IPR001156; Peptidase S60.
Pfam; PF00405; Transferrin; 2.
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                                                                                    PRINTS; PR00422; TRANSFERRIN.
SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1; 1.
PROSITE; PS00206; TRANSFERRIN 2; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
SEQUENCE 697 AA; 76698 MW; D3E3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=C57BL/6J; TISSUE=Bone marrow;
Arakawa T., Carninci P., Fukuda S., Hashizume W., Hayashida K.,
Hori F., Iida J., Imamura K., Imotani K., Itoh M., Kanagawa S.,
Kawai J., Kojima M., Konno H., Murata M., Nakamura M., Ninomiya N.,
Nishiyori H., Nomura K., Ohno M., Sakazume N., Sano H., Sasaki D.,
Shibata K., Shiraki T., Tagami M., Tagami Y., Waki K., Watahiki A.,
Muramatsu M., Hayashizaki Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=C57BL/6J; TISSUB=Bone marrow;
MEDLINE=20499374; pubMed=11042159; DOI=10.1101/gr.145100;
Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata
Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
"Normalization and subtraction of cap-trapper-selected cDN
prepare full-length cDNA libraries for rapid discovery of
Genome Res. 10:1617-1630(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Copyrighted by the UniProt Consortium, see http://www.uniprot.org/to Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Muramatsu M., Hayashizaki Y.; Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL;
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Score 92; DB
Pred. No. 4.5e
2; Mismatches
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A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
A Brownstein M.J., Wollano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Blakesley R.W., Touchman J.W., Schmutz J., Myers R.M.,
Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human
"Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  product:transferrin, full insert sequence) (Adult male liver tumor cDNA, RIKEN full-length enriched library, clone:C730037L17 product:transferrin, full insert sequence) (Adult male liver tumor cDNA, RIKEN full-length enriched library, clone:C730048P21 product:transferrin, full insert sequence) (17 days pregnant adult female amnion cDNA, RIKEN full-length enriched library, clone:1920015B11 product:transferrin, full insert sequence) (17 days pregnant adult female amnion cDNA, RIKEN full-length enriched libra pregnant adult female amnion cDNA, RIKEN full-length enriched libra clone:1920066F17 product:transferrin, full insert sequence).
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MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
                                              STRAIN=C57BL/6J;
PubMed=16141072;
                                                                                                                                                                                                                                                                                                                                                                                                         NIH MGC Project;
Submitted (MAR-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=FVB/N; TISS MEDLINE=22388257;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognat
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                  "High-efficiency
                                                                                                                                                                                                                                                                    STRAIN=C57BL/6J; TISSUE=Amnion, Liver, and Mammary gland; MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE.
STRAIN=FVB/N; TISSUE=Mammary tumor.
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07-FEB-2006,
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TISSUE=Amnion, Liver, and Pub
DOI=10.1126/science.1112014;
DOI=10. Title Science (1112014);
DOI=10.1126/science (1112014);
                                                                                                                                                                                full-length cDNA
303:19-44(1999).
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                       Gough J., Frith M.C.,
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RA Ambesi-Impionbato A. Apweiler R., Aturaliya R.N., Bailey T.L.,
RA Ambesi-Impionbato A. Apweiler R., Aturaliya R.N., Bailey T.L.,
RA Chiu K.P., Choudhary V., Christoffels A., Clutterbuck D.R.,
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RX MEDLINE-22354683; PubMed=12466851; DOI=10.1038/nature01266;
RX MEDLINE-22354683; PubMed=12466851; DOI=10.1038/nature01266;
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Science 309:1564-1566(2005).
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Gojobori T.,
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Miyazaki A., Sakai K.,

Sasaki D., Shibata K., Shinagawa A.,

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RC STRAIN=C57BL/6J; TISSUE=Amnion, Liver, and Mammary gland;

RM MEDLINE=21085660; PubMed=11217851; DOI=10.1038/J59555500;

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RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,

RA Hayashizaki Y.,

RA Hayashizaki Y.,
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Matches 18
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Nishiyori H., Nomura
Nishiyori K., Shiraki T
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Shibata K., Shi
Shibata K., Shi
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MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
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Birney E., Hayashizaki Y.;
"Analysis of the mouse transcriptome based
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420:563-573(2002).
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   TTEDCIEKIVNGEADAMTLDGG
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2; Mismatches
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--- SUBDUTI: Monomer (By similarity).

--- SUBCELUULAR LOCATION: Secreted protein.

--- TISSUE SPECIFICITY: Expressed by the liver and secreted in plasma.

--- MISCELLANEOUS: The peptidase $60 domains do not have protease function as the catalytic residues are missing.

--- SIMILARITY: Belongs to the transferrin family.

--- SIMILARITY: Contains 2 peptidase $60 domains.
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01-NOV-1997, integrated into U
01-NOV-1997, sequence version
07-MAR-2006, entry version 42.
Serotransferrin precursor (Tra
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  BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PANTHER; PTHR11485; Peptidase
Pfam; PF00405; Transferrin; 2
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Name=TF;
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ia; Eutheria;
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Laurasiatheria;
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heria; Cetartiodactyla;
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       PROTEIN SEQUENCE OF 20-49.

MEDLINE-90105538; PubMed-2605266;
Hutchens T.W., Magnuson J.S., Yip T.-T.;

"Rapid purification of porcine colostral whey lactoferrin by affichromatography on single-stranded DNA-agarose. Characterization, acid composition and N-terminal amino acid sequence.";

Biochim. Biophys. Acta 999:323-329(1989)
                                                                                                                                                                                                                                   TRFL PIG STANDARD;
P14632; Q29557;
O1-APR-1990, integrated into t
15-DEC-1998, sequence version
                                                                                                                                                                                                                                                                     'n
                                                                                           NUCLEOTIDE SEQUENCE
MEDLINE=92367939; Pu
                                                                                                                                 Lyndon J.P., O Conneely O.M.;
                                                                                                                                       NUCLEOTIDE SEQUENCE [MRNA].
MEDLINE=92379101; PubMed=1511016; DOI=10.1016/0167-4781(92)90061-4;
Lyndon J.P., O'Malley B.R., Saucedo O., Lee T., Headon D.R.,
                                                                                                                                                                                                                     07-FEB-2006, entry version 
Lactotransferrin precursor
                                                                                    Alexander L.J.,
                                                                                                                                                                                        Mammalia;
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FUNCTION:
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                                                                    7939; PubMed=1503259;
J., Levine W.B., Teng
sequencing of the por
23:251-256(1992).
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1132:97-99(1992).
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Attribution-NoDerivs License

HSSP; Q9TUMO; 1DTZ.

Interpro; IPR001156; Peptidase\_S60; 1.

PANTHER; PFHR11485; Peptidase\_S60; 1.

Pfam; PF00405; Transferrin; 2.

PRINTS; PR00422; TRANSFERRIN.

SMART; SW00094; TR FER; 2.

PROSITE; PS00205; TRANSFERRIN\_1; 2.

PROSITE; PS00206; TRANSFERRIN\_2; 2.

PROSITE; PS00207; TRANSFERRIN\_3; 1.

PROSITE; PS00207; TRANSFERRIN\_3; 1. EMBL; M92089; AAA31102.1; EMBL; M81327; AAA31059.1; PIR; A45543; A45543. Signal; Transport. 1.1 mRNA. ein; Hydrolase; Protease; Repea Repeat; Ion transport

385 491 53 213 213 188 196 395 395 547 590 474 478 480 348 689 88 274 77 107 207 268 410 448 541 481 139 704 Lactotransferrin.
/FTICA-PRO 0000035738.
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RESULT 14
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ID Q6YT39
AC Q6YT39
DT Q5-JUL
DT Q5-JUL
DT Q7-FEB
DE Lactot
GN Name=L
OS SU8 8C
OC EUKARY
OC Mammal
OC SU8.
CO NCBIT
RN [1]
TRN [1]
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CC OSST
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DR HSSP;
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Matches 17
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HSSP; Q29477; 1JW1.
GO; GO:0005576; C:extracellular region; IEA.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008199; P:iron ion homeostasis; IEA.
GO; GO:0006879; P:iron ion transport; IEA.
GO; GO:0006879; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase_S60; 1.
PANTHER; PTHR11485; Peptidase_S60; 1.
Pfam; PF00405; Transferrin; 2.
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Q6YT39;
Q5-JUL-2004, integrated into UniProtKB/TrEMBL.
Q5-JUL-2004, sequence version 1.
Q7-FEB-2006, entry version 9.
Lactotransferrin.
                                                                                                                                                                                                                                                PRINTS; PR00422; TRANSFERRIN.

SMART; SM00094; TR PER; 2.

PROSITE; PS00205; TRANSFERRIN 2; 2.

PROSITE; PS00206; TRANSFERRIN 3; 1.

PROSITE; PS00207; TRANSFERRIN 3; 1.

SEQUENCE 704 AA; 77612 MW; 10DFEA3C1366D5DA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Distributed under the Creative Commons Attribution-NoDerivs License
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D -> G (in Ref. 1).
Missing (in Ref. 2).
T -> I (in Ref. 1).
E -> S (in Ref. 1).
E -> O (in Ref. 1).
D -> N (in Ref. 1).
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Pred. No. 4.5e-05;
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RESULT 15
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Search completed: June 13, Job time : 186.691 secs
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SMART; SM00094; TR FER; 2.

PROSITE; PS00205; TRANSFERRIN 1; 2.

PROSITE; PS00205; TRANSFERRIN 2; 1.

PROSITE; PS00207; TRANSFERRIN 3; 1.

PROSITE; PS00207; TRANSFERRIN 3; 1.

PROSITE; PS00207; TRANSFERRIN 3; 1.
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GO; GO:0005576; C:extracellular region; IEA.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0006879; P:iron ion homeostasis; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
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Pecorini C., Fogher C., Baldi A.;
Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
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01-OCT-2003, sequence version
07-FEB-2006, entry version 11.
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PANTHER; PTHR11485; Peptidase_S60;
Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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17; Conserv
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1: /EMC_Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*

4: /EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*

6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*

7: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
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US-08-115-681-6
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US-08-456-106-6
US-08-456-108-6
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ALIGNMENTS

## US-08-175-158A-2 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC Compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: ASCII text CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/175,158P FILING DATE: 28-DEC-193 CLASSIFICATION UNMBER: US 07/832,029 FILING DATE: 06-PEB-192 APPLICATION NUMBER: 31,503 REGISTRATION NUMBER: UVI-005C TELECOMMUNICATION INFORMATION: NAME: DECONTI, GIULIO A. REGISTRATION NUMBER: UVI-005C TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 227-7400 TELEPAX: (617) 227-5941 INFORMATION COR SEQ ID NO: 2: SEQUENCE CHARACTERISTICS: LEWITH: 698 amino acids US-08-175-158A-2 Sequence 2, Application US/08175158A Patent No. 5986067 APPLICANT: MacGILLIVRAY, Ross T.A. APPLICANT: MASON, Anne B. APPLICANT: MODDWORTH, ROSDET C. TITLE OF INVENTION: RECOMBINANT TRANSFERRIN, TRANSFERRIN HALFTITLE OF INVENTION: MOLECULES AND MUTANTS THEREOF NUMBER OF SEQUENCES: 7 MOLECULE TYPE: protein CORRESPONDENCE ADDRESS: STATE: M STREET: CITY: E TYPE: amino acid TOPOLOGY: linear ADDRESSEE: 02109 Boston Massachusetts E: LAHIVE & COCKFIELD 60 State Street, suit USA US/08/175,158A 07/832,029 suite 510

22;

Conservative

95.7**%**;

Score 110; DB 1; Pred. No. 1.2e-09; 0; Mismatches 1

Length 698; Indels

0,

Gaps

TTEDSIAKIMNGEADAMSLDGGF

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NAME: DeConti, Giulio A.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: UVI-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 698 amino acids
TYPE: amino acid
TOPOLOGY: linear
TOPOLOGY: linear
                                                                                                Sequence 2, Application US/08470058
Patent No. 5817789
GENERAL INFORMATION:
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Best Local Similarity
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APPLICANT:
APPLICANT:
            APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
TITLE OF INVENTION: Chimeric Proteins For Use in Transport
TITLE OF INVENTION: of a Selected Substance Into Cells
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
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CITY: E
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MacGILLIVRAY, Ro
MASON, Anne B.
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                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,188
FILING DATE: 02-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION: APPLICANT: Heartl
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TELEPAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
NUMBER OF SEQUENCES: 12
            FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Ph.D., J.D., Janis K.
REGISTRATION NUMBER: 34,819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricla
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TK:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,058
FILING DATE: 06-UNN-1995
CLASSIFICATION: 530
CLASSIFICATION: 530
                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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CITY: Boston
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CITY: Lexington
                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 02110-2804
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REFERENCE/DOCKET NUMBER: 07236/009002
                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Fish & Richardson P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
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ilarity 95.7%;
Conservative (
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TELEPHONE: 617/542-5070

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US-09-285-310-2
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                                                                                                                                                                                         TELEPHONE: 617/542-5070
TELEPAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino acid
                                                               Matches
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                                                                                              Query Match
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino aci
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NAME: Fraser, Ph.D., J.D., Ja
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 0723
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compati
OPERATING SYSTEM: Win
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APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/285,310
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                                                                              Local
                                                                                                                                                                             TYPE:
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o. 6262026
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                                                                                Similarity
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TTEDCIAKIMNGEADAMSLDGGF 790
                  TTEDSIAKIMNGEADAMSLDGGF 23
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225 Franklin Street
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SYSTEM: Windows95
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                                                                                                                                              protein
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95.7%;
                                                                           95.7%; Score 110; DB 2
95.7%; Pred. No. 2e-09;
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                                                             0; Mismatches
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Pred. No. 2e-09;
                                                                                                                                                                                                                                                                                                                                            Janis K.
                                                                                          DB 2; Length 1074;
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US-09-753-385-2
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Best Local Similarity
                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,058
FILLING DATE: 06-JUN-1995
CLASSIFICATION: 530
CLASSIFICATION: 530
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PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 09/037,188
PRIOR FILING DATE: 1998-03-09
PRIOR APPLICATION NUMBER: US 09/285,310
PRIOR FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 12
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APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE IN TRANSPORTITE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS
FILE REFERENCE: 10278-025004
CURRENT PEPLICATION NUMBER: US/09/753,385
CURRENT FILING DATE: 2002-12-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: FastSEQ for Windows Version 4.0
TELEFAX: 617-861-9540 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Militia Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Heartlein, Michael W.

APPLICANT: Lemontt, Jeffrey F.

TITLE OF INVENTION: Chimeric Proteins For Use in Transport
TITLE OF INVENTION: of a Selected Substance Into Cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH:
                                       TELEPHONE: 617-861-6240
                                                                                                           NAME: Granahan, Patricia REGISTRATION NUMBER: 32,
                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: Two Mili
                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 02173
                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
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ilarity 95.7%;
Conservative
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Pred. No. 2e-09;
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                                                                                                                                                                                                                                                                     Version #1.30
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; Sequence 4, Application US/09285310
                 RESULT 9
US-09-285-310-4
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                                                                                                                                                                                                   ; MOLECULE TYPE: protein US-09-037-188-4
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Patent No. |
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                                                                                                                                                      Query Match
Best Local (
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Best Local
                                                                                                                                                                                                                                                                            TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 02-MAR-
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/037,188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: protein
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                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: CHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                       NAME: Fraser, Ph.D., J.D., Janis K. REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 07236/009002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: un
TOPOLOGY: unknow
                                                                                                                                                                                                                               TYPE: amino acid
TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible OPERATING SYSTEM: Window
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Fish & KICHGIUGE.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                          TELEFAX: 617/542-8906
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Similarity 95.7%;
22; Conservative
                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                1410 amino acids
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                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Heartlein, Michael W.
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                                                                                                                                                     95.7%;
95.7%;
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IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Windows95
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                                                                                                                                                      Score 110; DB 2;
Pred. No. 2.7e-09;
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Pred. No. 2.7e-09;
                                                                                                                                        Mismatches
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                                                                                                                                                                      Length 1410;
                                                                                                                                        Indels
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                                                                                                                                        0;
                                                                                                                                        Gaps
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APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE IN TRANSPORT
TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS
FILE REFERENCE: 10278-025004
FURRENT APPLICATION NUMBER: US/09/753,385
CURRENT FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: US 08/470,058
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: US 09/037,188
PRIOR FILING DATE: 1998-03-09
PRIOR APPLICATION NUMBER: US 09/285,310
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                                                                                                                                                                                                                                                                                                                                                   Sequence 4, Application US/09753385
Patent No. 6858578
GENERAL INFORMATION:
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APPLICANT: Heartl
APPLICANT: Lemont
                                       NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: unknown MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS
LENGTH: 1410 amino ac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Fraser, Ph.D., J.D., C.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 077
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 1
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APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHICKRIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 225 F
CITY: Boston
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Window
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NO 4
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                   FastSEQ
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                   for Windows Version 4.0
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95.7%;
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Pred. No. 2.7e-09;
0; Mismatches 1
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RESULT 11
5262177-4
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Best Local Similarity
Marches 22; Conserva
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-753-385-4
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US-09-724-864-54
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                                                                                                                                    ; ORGANISM: Mouse
US-09-724-864-54
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; APPLICANT: BROWN, JOSEPH P.;ESTIN, CHARLES D.;PLOWMAN, GREGORY
; DI;HELLSTROM, KARL E.;ROSE, TIMOTHY M.;HELLSTROM, INGEGERD;
; DURCHIO, BATHONY F.;HU, SHIU-LOK;PENNATHUR, SRIDHAR
; TITLE OF INVENTION: RECOMBINANT VIRUSES ENCODING THE HHUMAN
;MELANOMA-ASSOCIATED ANTIGEN
                                                                                                                                                                    SOFTWARE: Fa
SEQ ID NO 54
LENGTH: 697
TYPE: PRT
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Matches
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                                                                                                   Query Match
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Patent No. 63000
PATENAL INFORMATION:
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/7230
FILING DATE: 27-JAN-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 827,313
FILING DATE: 07-FEB-1986
                                                                                                                                                                                                                                                                                                            APPLICANT: Watson, James D
APPLICANT: Murison, James G.
TITLE OF INVENTION: Polynucleotides, polypeptides expressed
TITLE OF INVENTION: by the polynucleotides and methods for their use.
FILE REFERENCE: 11000.1050U1
                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: U.S. NO. 6380362 60/171,678
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 72
                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/724,864
CURRENT FILING DATE: 2000-11-28
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nes 21; Conserv
                                                                                   Local
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391
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                                                                                 Similarity
                                 TTEDSIAKIMNGEADAMSLDGG 22
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TTEDCIEKIVNGEADAMTLDGG 412
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ilarity 91.3%;
Conservative
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                                                                   Conservative
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95.7%;
                                                                                 80.0%;
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; Pred. No. 6.3e
0; Mismatches
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Pred. No. 2.7e-09;
0; Mismatches 1
                                                               Score 92; DB 2; Le
Pred. No. 1.1e-06;
2; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6.3e-07;
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                                                                                               Length 697;
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RESULT 14
US-08-453-703-6
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US-08-145-681-6
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                                                                                                                                                                                                                    Sequence 6, Application US/08453703 Patent No. 5766939
                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, VG
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/145,681
FILING DATE:
CLASSIFICATION: 435
                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 713/229/1522
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein HYPOTHETICAL: YES ANTI-SENSE: NO ORIGINAL SOURCE: ORGANISM: Sus scrofa
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APPLICANT: May, Greg
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                      APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: and Lactoferrin Polypeptides Using cDN
TITLE OF INVENTION: Various Organisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: MCGregor, Martin L.
REGISTRATION NUMBER: 29,3
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 77002
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 703 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Headon, Denis R. APPLICANT: O'Malley, Bert W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Houston
STATE: Texas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: U:
ZIP: 77002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity es 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                 390 TTEDCIVQVLKGEADAMSLDGGF 412
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910 Louisiana St
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   713/229/1522
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                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                         and Lactoferrin Polypeptides Using cDNA Sequences in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Production of Recombinant Lactoferrin and Lactoferrin Polypeptides Using cDNA Sequences in
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                                                                                                                                                                                                                                                                                                                                                                                                                        Score 92; DB 1;
Pred. No. 1.1e-0
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CITY: New York STATE: New York COUNTRY: USA

10036

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Patent No. 5849881
GENERAL INFORMATION:
APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
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US-08-456-106-6
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; ORGANISM: Sus scrofa
US-08-453-703-6
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TELEPHONE: 415-854-3660
TELEPAX: 415-854-3664
INFORMATION POR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 703 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: Production of Recombinant Lactoferrin
TITLE OF INVENTION: Various Organisms
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & FAmourical Pennie & 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/453,703
FILING DATE: Concurrently herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,681
FILING DATE: October 28, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Albert P. Halluin
REGISTRATION NUMBER: 25,227
REFERENCY/DOCUMENTER: 25,227
COMPUTER READABLE FORM:

MEDIUM TYPE: Ploppy disk
COMPUTER: ISM PC compatible
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: US/08/456,106
FILING DATE: Concurrently herewith
CLASSIFICATION: 435
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compartible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                     STATE: N
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STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
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TYPE: amino acid
TOPOLOGY: linear
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73.9%;
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                                                              Query Match 80.0
Best Local Similarity 73.9
Matches 17; Conservative
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                            MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 703 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: 415-854-3660
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APPLICATION NUMBER: 08/145,68:
FILING DATE: 0Ctober 28, 1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 8206-025
                                                                                                                                                                                                                                                                                                                                                                                    NAME: Albert P. Halluin REGISTRATION NUMBER: 25,
390 TTEDCIVQVLKGEADAMSLDGGF 412
                                 TTEDSIAKIMNGEADAMSLDGGF 23
                                                                                                                                                  Sus scrofa
                                                                                80.0%;
73.9%;
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                                                                   3; Mismatches
                                                                                Score 92; DB 1;
Pred. No. 1.1e-06;
                                                                                               Length 703;
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Search completed: June 13, 2006, 04:25:49 Job time : 40.5882 secs

Gaps

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Result
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Maximum DB seq length: 200000000
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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protein search, using
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Match
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1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep:*
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TTEDSIAKIMNGEADAMSLDGGF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd
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              US-10-612-162-2
US-9-891-126-5
US-10-266-745-5
US-10-386-060-3
US-10-391-494-3
US-10-429-497-4
US-10-429-515-4
US-10-429-635-4
US-10-429-653-4
US-10-429-653-4
US-10-429-655-4
US-10-429-655-4
US-10-429-655-4
US-10-429-660-4
US-10-429-660-4
US-10-429-655-4
US-10-429-655-4
US-10-429-655-4
US-10-381-094-2
US-10-381-201-10
US-10-383-201-14
US-10-383-201-14
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Sequence 3, Application US/10378094

Publication No. US20030221201A1

GENERAL INFORMATION:
APPLICANT: PRIOR, Christopher P.
APPLICANT: LAI, Char-Huei
APPLICANT: SADEHI, Homayoun
APPLICANT: SADEHI, Homayoun
APPLICANT: SADEHI, Homayoun
APPLICANT: SADEHI, Homayoun
APPLICANT: SATION:
CURRENT APPLICATION NUMBER: US/10/378,094

CURRENT APPLICATION NUMBER: US/10/378,094

CURRENT FILING DATE: 2003-03-04

PRIOR APPLICATION NUMBER: US 60/334,059

PRIOR FILING DATE: 2001-11-30

PRIOR FILING DATE: 2001-10-30

PRIOR FILING DATE: 2001-10-30

PRIOR FILING DATE: 2001-10-30

PRIOR FILING DATE: 2001-08-30

NUMBER OF SEQ ID NOS: 66

SOFTMARE: Patentin version 3.2
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US-10-266-745-5
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Publication No. US20030149256A1
GENERAL INFORMATION:
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                                                                                                          SEQ ID NO 3
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PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: PCT/US00/34769
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/171,595
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Ruben et al.
TITLE OF INVENTION: Transferrin Polynucleotides, Polypeptides, and Antibodies
FILE REFERENCE: PT035P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Ver. 2.0
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ORGANISM: Homo sapiens
                                          ORGANISM: Homo sapiens
                                                                    TYPE: PRT
NAME/KEY: MISC_FEATURE
                                                                                    ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENGTH: 328
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22;
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                                                                                      679
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95.7%;
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95.7%;
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Pred. No. 8.4e-09;
0; Mismatches 1
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Pred. No. 8.4e-09
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US-10-231-494-3
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PRIOR FILING DATE: 2002-08-30
PRIOR PELICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-08-30
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
                                                                                                                                                                                                                                                          Sequence 3, Application US/10231494
Publication No. US20040023334A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
TITLE OF INVENTION: Modified Transferrin Fusion Proteins
FILE REFERENCE: 54710-5001-US
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Best Local Similarity
Matches 22; Conserv
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 3
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                                                                              SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 3
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CURRENT FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-08-30
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PRIOR FILING DATE: 2001-11-30
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APPLICANT: PRIOR, Christopher P.
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN-ANTIBODY FUSION PROTEINS
FILE REFERENCE: 54710-5004-US
CURRENT APPLICATION NUMBER: US/10/384,060
CURRENT FILING DATE: 2003-03-10
                                                                                                                      NUMBER OF SEQ ID NOS: 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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OTHER INFORMATION: Mature Transferrin Protein
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nes 22; Conserv
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Pred. No. 2e-08;
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Pred. No. 2e-08;
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; SEQ ID NO 4
; LENGTH: 679
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-429-497-4
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Publication No. US20040219098A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For The Treatment
FILE REFERENCE: 2537.000006
CURRENT APPLICATION NUMBER: US/10/429,497
CURRENT FILING DATE: 2003-05-02
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For The Treatment Of Tumors
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                                                Sequence 4, Application US/10429515
Publication No. US20040219099A1
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CURRENT APPLICATION NUMBER: US/10/429,482
CURRENT FILING DATE: 2003-05-02
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SOFTWARE: PatentIn version 3.1
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TYPE: PRT
ORGANISM: Homo sapiens
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Pred. No. 2e-08;
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Pred. No. 2e-08;
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Pred. No. 2e-08;
0; Mismatches
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CURRENT APPLICATION NUMBER: US/10/429,515;
CURRENT FILING DATE: 2003-05-02;
NUMBER OF SEQ ID NOS: 6
SOPTWARE: PatentIn version 3.1;
SEQ ID NO 4;
LENGTH: 679;
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-515-4
                                                               LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-635-4
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US-10-429-635-4
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TITLE OF INVENTION: Composition Useful For The Treatment of Tumors
FILE REFERENCE: 2537.000003
CURRENT APPLICATION NUMBER: US/10/429,598
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEG ID NOS: 6
SOFTWARE: Patentin version 3.1
SEG ID NO 4
                                                                                                                                  SOFTWARE: PatentIn version 3.1 SEQ ID NO 4
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   Matches
               Query Match
Best Local Similarity
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TITLE OF INVENTION: Composition Useful For Treatment Of Tumors
FILE REFERENCE: 2537.000007
CURRENT APPLICATION NUMBER: US/10/429,635
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
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TYPE: PRT
ORGANISM: Homo sapiens
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Pred. No. 2e-08;
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Pred. No. 2e-08;
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TTEDSIAKIMNGEADAMSLDGGF 23

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APPLICANT: Sandhu, Jasbir
ITILE OF INVENTION: Compositions For Drug Delivery
FILE REFERENCE: 2537.000009
CURRENT APPLICATION NUMBER: US/10/429,653
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-653-4
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-429-659-4
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US-10-429-653-4
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Publication No. US20040219103A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods Useful For The Diagnosis, Imaging and Treatment Of Tumors
FILE REFERENCE: 2537.000004
CURRENT APPLICATION NUMBER: US/10/429,659
CURRENT FILING DATE: 2003-04-30
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
                                APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For Treatment Of Tumors
FILE REFERENCE: 2537.000008
CURRENT APPLICATION NUMBER: US/10/429,661
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
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Best Local Similarity
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Best Local Similarity 95.7%;
Matches 22; Conservative
10-429-661-4
              ORGANISM: Homo sapiens
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Pred. No. 2e-08;
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Pred. No. 2e-08;
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 679
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-429-660-4
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Search completed: June 13, Job time : 132.25 secs
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APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For Nucleic Acid Delivery
FILE REFERENCE: 2537.000012
CURRENT APPLICATION NUMBER: US/10/429,660
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 12
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Best Local
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Local Similarity 95.7%;
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Pred. No. 2e-08;
0; Mismatches
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GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.

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length: 2000000000
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1: /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US09_NEW_PUB.pep:*

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4: /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US08_NEW_PUB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

6: /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

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RESULT 2
US-10-515-429-2
; Sequence 2, Application US/10515429
; Publication No. US20060105387A1
; GENERAL INFORMATION:
; APPLICANT: Prior, Christopher P.
; APPLICANT: Turner, Andrew J.
; APPLICANT: Sadeghi, Homayoun
; TITLE OF INVENTION: Transferrin Fusion Protein Libraries

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373

1 TTEDSIAKIMNGEADAMSLDGGF 23

TTEDCIAKIMNGEADAMSLDGGF 395

Query Match Best Local S Matches 22

l Similarity 95.7 22; Conservative

95.7%; 95.7%;

Score 110; DB 6; Pred. No. 1.4e-09; Mismatches

Length 679; Indels

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RESULT 1 US-10-515-429- US-10-515-429- Sequence 3, Publication GENERAL INFO APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: FITLE OF IN FITLE REFERE CURRENT APPLI PRIOR APPLI PRIOR FILLN PRIOR APPLI PRIOR PILLN PRIOR FILLN PRIOR PILLN PRIOR FILLN PRIOR		444444 337 542 544444 542 542 542 542 542 542 542
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application No. US200601 RMATION: US200601 Prior, Chris Turner, And Sadeghi, HG Sadeghi, HG Sadeghi, HG DATE: 2002 CATION NUMBE G DATE: 2003 CATION		88899.11.0000000000000000000000000000000
29-3 3, Application US/105154 on No. US20060105387A1 NFORWATION: T: Prior, Christopher P. T: Turner, Andrew J. T: Sadeghi, Homayoun INVENTION: Transferrin ERENCE: 054710-5007-WO APPLICATION NUMBER: US/1 FILING DATE: 2004-11-23 FILIATION NUMBER: US/1 FILING DATE: 2003-08-36 PLICATION NUMBER: US 60/ PLICATION NUMBER: US 00/ PLICATION NUMBER: US 00/ PLICATION NUMBER: US 0/ PLICATION NUMBER: US 0/ PLICATION NUMBER: US 60/ PRI DATE: 2003-07-09 F SEQ ID NOS: 75 : PatentIn Ver. 2.1 679 RT NFORMATION: Mature trans 29-3		708 695 711 686 686 708 708 708 708 325 325 342 371 371 371 371
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ttion US/10515429 :0060105387A1 : :Christopher P. :, Andrew J. :i, Homayoun :: Transferrin Fusion Protein Libraries 4710-5007-W0 NUMBER: US/10/515,429 E: 2004-11-23 NUMBER: PCT/US03/26779 2003-08-26 NUMBER: US 60/406,977 2002-08-30 NUMBER: US 10/384,060 2003-03-10 NUMBER: US 60/485,404 2003-07-09 OS: 75 I Ver. 2.1	ALIGNMENTS	US-11-258-767-32 US-11-258-767-26 US-11-258-767-34 US-11-258-767-33 US-10-515-429-43 US-11-258-767-16 US-11-258-767-29 US-11-258-767-29 US-11-258-767-39 US-11-258-767-39 US-11-258-767-39 US-11-258-767-39 US-11-258-767-39 US-11-258-767-39 US-10-520-999-10 US-10-520-999-10 US-10-520-999-9 US-10-520-999-9 US-10-520-999-9 US-10-520-999-8 US-10-520-999-8 US-10-520-999-12 US-10-520-999-12 US-10-520-999-12 US-10-53-349-1941
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APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILLING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR PILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR APPLICATION NUMBER: US 60/485,404
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US-10-515-429-40
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TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-10-515-429-37
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CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PACENTIN VET: 2.1
Sequence 40, Application US/10515429
Publication No. US20060105387A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 37
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95.7%;
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Pred. No. 1.4e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
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RESULT 6 US-10-515-429-41

Sequence 41, Application US/10515429 Publication No. US20060105387A1 GENERAL INFORMATION:

Prior, Christopher P. Turner, Andrew J.

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APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-W0
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR FILING DATE: 2003-08-26
PRIOR FILING DATE: 2003-08-30
PRIOR FILING DATE: 2003-03-10
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 60/485,404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-W0
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR FILING DATE: 2003-08-26
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
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US-10-515-429-39
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                                                                                                                                                                             US-10-515-429-39
                                                                                Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                         SOFTWARE: PatentIn
SEQ ID NO 39
LENGTH: 677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 39, Application US/10515429 Publication No. US20060105387A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 83.5%;
Best Local Similarity 82.6%;
Matches 19; Conservative
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                                                                                                                                                                                                                                                                                       PRIOR FILLING LOS: 75
NUMBER OF SEQ ID NOS: 75
Parentin Ver. 2.1
                                                                                                                                                                                             TYPE: PRT
ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
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372 TTEDCIEKIVNGEADAMTLDGG 393
                         1 TTEDSIAKIMNGEADAMSLDGG 22
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                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                      2003-07-09
                                                                                                            80.0%;
                                                                                       2; Mismatches
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Pred. No. :
                                                                                                            Score 92; DB 6;
Pred. No. 8.4e-07;
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; LENGTH: 686
; TYPE: PRT
; ORGANISM: PIG
US-11-258-767-36
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US-10-515-429-42
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US-11-258-767-36
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US-10-515-429-41
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PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
                                Sequence 42, Application US/10515429
Publication No. US20060105387A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
SOFTWARE: Patentin version 3.3
SEQ ID NO 36
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TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 2.1
CURRENT APPLICATION NUMBER: US/10/515,429
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                    054710-5007-WO
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73.9%;
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Pred. No. 8.5e-07
3; Mismatches
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Pred. No. 8.5e-07;
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; SOFTWARE: Patentin v
; SEQ ID NO 37
; LENGTH: 703
; TYPE: PRT
; ORGANISM: PIG
US-11-258-767-37
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US-11-258-767-37
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PRIOR APPLICATION NUMBER: PCT/US03/26779

PRIOR FILING DATE: 2003-08-26

PRIOR APPLICATION NUMBER: US 60/406,977

PRIOR APPLICATION NUMBER: US 60/406,060

PRIOR APPLICATION NUMBER: US 10/384,060

PRIOR APPLICATION NUMBER: US 60/485,404

PRIOR APPLICATION NUMBER: US 60/485,404

PRIOR FILING DATE: 2003-07-09

PRIOR FILING DATE: 2003-07-09
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 42
LENGTHY
                                                                                                              Sequence 38, Application US/10515429 Publication No. US20060105387A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 37, Application US/11258767 Publication No. US20060094082A1 GENERAL INFORMATION:
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APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
CURRENT APPLICATION NUMBER: US/10/515,429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
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APPLICANT: Engelmayer, Jose
TITLE OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HOO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Varadhachary, Atul APPLICANT: Glynn, Peter
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NAME/KEY: misc_feature
LOCATION: (308)...(308)
OTHER INFORMATION: Xaa can be any naturally occurring amino
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ORGANISM: Sus scrofa
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Pred. No. 8.8e-07;
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Pred. No. 8.
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2;
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NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn version 3.3
SEQ ID NO 25
LENGTH: 698
TYPE: PRT
ORGANIAM: RAT
US-11-258-767-25
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US-11-258-767-25
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PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR FILING DATE: 2003-07-09
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
Sequence 31, Application US/11258767
Publication No. US20060094082A1
GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Varadhachary, Atul
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2004-10-26
PRIOR FILING DATE: 2004-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 25, Application US/11258767
Publication No. US20060094082A1
GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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Matches
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SEQ ID NO 38
LENGTH: 676
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PRIOR APPLICATION NUMBER: PCT/US03/26779
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ORGANISM: Rattus norvegicus
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Local Similarity 81.8%;
les 18; Conservative
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81.8%;
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Pred. No. 1.8e-06;
2; Mismatches 2;
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Pred. No. 1.7e-06;
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; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31
; LENGTH: 709
; TYPE: PRT
; ORGANISM: HUMAN
US-11-258-767-31
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; ORGANISM: HUMAN
US-11-258-767-33
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                                       US-11-258-767-12
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APPLICANT: Varadhachary, Atul
APPLICANT: Varadhachary, Peter
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US.
                                                                                       SOFTWARE: PatentIn version 3.3
SEQ ID NO 12
LENGTH: 711
                                                                                                                                                                                                                                                                                                                                                                          Sequence 12, Application US/11258767
Publication No. US20060094082A1
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SOFTWARE: PatentIn version 3.3
SEQ ID NO 33
LENGTH: 710
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Best Local Similarity 73.9
Matches 17; Conservative
 Query Match
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                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
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CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
                                                        TYPE: PRT
ORGANISM: HUMAN
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Pred. No. 1.8e-06;
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RESULT 15

US-11-258-767-15

Sequence 15, Application US/11258767

Sequence 15, Application US/11258767

Publication No. US20060094082A1

GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Clynn, Peter
APPLICANT: Elynn, Peter
APPLICANT: Engelmayer, Jose
FILE REFERENCE: HO-P02915US1

CURRENT INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: WS/11/258,767

CURRENT FILING DATE: 2005-10-26

PRIOR APPLICATION NUMBER: US/11/258,767

CURRENT FILING DATE: 2004-10-26

NUMBER OF SEQ ID NO.15

SOFTWARE: Patentin version 3.3

SEQ ID NO.15

LENGTH: 711

TYPE: PRT

ORGANISM: HUMAN

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Search completed: June 13, 2006, 04:56:53 Job time: 7.77941 secs
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Aar54368	Adw92635	Adv52893	Adg18473	Add88708	Abg32088	Aag63467	Aag63474	Aag63464	Aag63472	Aag63462	Aag63469	Aag63459	Aag63477	Aaw74556	Adk50301	Aef7677!	Aeb25313	Adv50385	Aeb21274	Adf51339
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## ALIGNMENTS

ADG46076;

ADG46076 standard; peptide;

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RESULT 1
ADG46076
ID ADG4
XX ADG4
XX ADG4
XX ADG4
XX ADG4
XX ADG4
XX Anti
KW Anti
KW NON-XX HOMC
XX EP13
XX EP13
XX 19-W
XX 19-W
XX Alth
XX 19-MAY-2003; 2003EP-00011334. EP1378521-A1. antibody; carbohydrate-deficient transferrin; CDT; non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human. Human CDT peptide fragment #2. 25-MAR-2004 05-JUL-2002; 2002DE-01030550. 07-JAN-2004. Homo sapiens (DADE-) DADE BEHRING MARBURG GMBH. (first entry)

Claim 4; SEQ ID NO 2; 21pp; German.

New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating need for immobilization.

WPI; 2004-073743/08.

Althaus H;

This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences VVARSMGGKEDLIWELL, TTEDSIAKIMNGSADAMSLDGGF, SKLSMGSGLNLSERN and YEKYLGEEYVKAV (ADD46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention. The antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for

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RESULT 2
AEE39174
The invention relates to identifying glycopolypeptides in a serum or CC plasma sample comprising immobilizing derivatized sample glycopeptides to a solid support, releasing the sample glycopeptide CC glycopolypeptides to a solid support, adding to the released sample CC glycopeptide fragments standard peptides, and identifying released sample CC glycopeptide fragments that correspond to standard peptides added by mass gentroscopy. Also included are a method for identifying one or more CC diagnostic markers for a disease, a composition comprising peptides are containing the glycopylation sites (AEE35897-AEE339378, where the peptides CC each correspond to peptide fragments derived by cleavage of polypeptides cusing the same cleavage reagent) and a kit comprising peptides containing the glycopylation sites (AEE35897-AEE39378). The methods are useful for clidentifying glycopolypeptides in a serum or plasma sample. The methods can be used for blood serum profiling for the detection of prognostic and CC diagnostic protein markers. It can also be used to identify and/or validate drug targets and to evaluate drug efficacy, drug dosing, and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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Query Match Best Local Similarity

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                                             The invention relates to a novel method for the quantitative analysis of a protein. The method involves hydrolyzing a first test sample in water containing 90% or more of 18-0 (an isotopic labeling element), hydrolyzing a second sample in water containing 90% or more of 16-0, mixing the hydrolyzed substance of the first and second samples, and carrying out quantitative analysis of the liquid mixture by liquid chromatography/electrospray ionization-mass spectrometry (LC/ESI-MS). The method enables the quantification of proteins in large-scale proteomics, and trace amount of proteins present in an organism can be quantified accurately and efficiently. This sequence represents a peptide fragment used in the protein quantitative analysis method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    drug toxicity. The methods can also be used for the detection of changes in the state of glycosylation of proteins based on the concurrent application of protein abundance measurement of protein glycosylation on the same sample. The method allows fast throughput and simplicity. It can be readily adapted for high throughput analysis of samples, which can be particularly advantageous for the analysis of clinical specimens. The method can also be automated to facilitate the processing of multiple samples. The present sequence is a human glycopeptide that does not contain an N-linked glycosylation site, suitable for use as a reference peptide in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Quantitative analysis of protein, by hydrolyzing test sample and control in water containing labeled oxygen, mixing hydrolyzed substance and subjecting liquid mixture to liquid chromatography/electrospray
                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 3; Page; 13pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2005-349932/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    quantitative analysis; HPLC; electrospray ionization; mass spectroscopy;
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                                                                                                                                                                                                                                                                                                              The invention relates to a method of identifying a protein comprising receiving mass spectrometry data that includes putative proteins, peptides and peptide confidence value, identifying and grouping proteins that share peptide information and determining for each group if it is likely that only one protein is present or if peptide evidence exists to support that other proteins in the group are present. The invention is used for identifying proteins in the field of drug discovery, in protein and gene expression analysis, as biomarkers and in other areas of systems biology. This sequence represents a peptide used in the scope of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identification of protein for e.g. drug discovery involves grouping proteins based on mass spectrometry data and determining whether only one form of protein is present or there is evidence to support the presence
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05-AUG-2004; 2004US-0599321P.
               01-DEC-2005
                                             AEC83228;
                                                                        AEC83228 standard; peptide; 23 AA
                                                                                                                                                                                                                                                                       Sequence 23 AA;
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                                                                                                                                                                                                           Local Similarity 54.
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54.5%;
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                                                                                                                                                                                                                           Score 32; DB 9;
Pred. No. 9.4e+02;
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                                                                                                                                                                                                                                         Length 23;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   composition comprising the sperm flagellar energy carrier protein, and a carrier; an isolated nucleic acid encoding the sperm flagellar energy carrier protein; a vector comprising the nucleic acid; a host cell comprising the vector; a composition comprising an isolated nucleic acid complementary to a nucleic acid encoding a sperm flagellar energy carrier protein, and a carrier; an antibody that binds to a sperm flagellar energy carrier protein; a pharmaceutical composition comprising the antibody and a carrier; an antigenic composition comprising a protein having SEQ ID NO: 2; and a carrier; a method of diagnosing a sperm flagellar energy carrier protein energy carrier protein energy carrier protein energy carrier protein-associated disease or disorder related to aberrant sperm flagellar energy carrier; a method of regulating sperm flagellar energy carrier protein-associated disease or disorder; a method of regulating sperm flagellar energy carrier protein-associated disease or disorder; a method of regulating sperm flagellar energy carrier protein expression, function, or levels in a flagellar energy carrier protein expression.
                                                                                                                                                                                                                                                                                          flagellar energy carrier protein expression, function, or levels in a subject. The sperm flagellar energy carrier protein is useful for treating sperm flagellar energy carrier protein-associated disease or disorder, e.g. infertility. The protein is also useful as contraceptive agent. The present sequence is a peptide derived from human Aldolase A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The new invention relates to a new mammalian sperm specific fibrous sheath protein, that is believed to function as an adenine nucleotide translocase, and has been designated sperm flagellar energy carrier (SPEC) protein comprising SEQ ID NO: 2 or 4. The protein is located in the principle piece of the sperm tail, but not in the midpiece. SFEC is believed to be essential for sperm motility, and thus antagonists of SFEC may have use as contraceptive agents. Also claimed are a pharmaceutical
                                                                                                                                                    Sequence 23
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30-SEP-2004; 2004US-0614817P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New mammalian sperm flagellar energy carrier (SPEC) protein, its homolog, derivative or fragment, useful as contraceptive, and for treating sperm flagellar energy carrier protein-associated disease or disorder, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2005-649557/66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiinfertility; genitourinary fructose bisphosphate ALDOA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     contraceptive; pharmaceutical; antibody therapy; diagnosis; infertility;
antiinfertility; genitourinary disease; Aldolase A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 8; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kim Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (UYVI-) UNIV VIRGINIA PATENT FOUND
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                                                                                                                                                                                                                                                      fructose-bisphosphate
                                                                                                                                                         B
27.8%;
54.5%;
                                                                                                                                                                                                                                                           ALDOA
          Score 32; DB 9;
Pred. No. 9.4e+02;
                                                        Length 23
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                                                                                                                                                                      isolated polypeptide selected from any of the polypeptides listed in the specification and is modified at a modification site, an isolated peptide comprising a mass spectral peak signatures. a method for identifying a treatment that modulates phosphorylation of an amino acid in a target polypeptide, a method for generating a peptide standard, a pair of peptide standards comprising the peptide obtained (where the peptide is phosphorylated and a corresponding peptide comprising an identical amino acid sequence but which is not phosphorylated), a system (comprising a computer memory comprising data files storing information relating to the identifying characteristics of positively charged peptides, and a data analysis module capable of executing instructions for organizing and/or searching the data files), a computer program product (comprising data relating to the identifying characteristics of positively charged peptides and comprising instructions for organizing and/or searching to the identifying characteristics of positively charged peptides. The present sequence is a peptide from a human phosphorytein, containing a phosphorylation site, identified by the method of the
                                                                                   Best Loc
Matches
                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (comprising determining the presence, absence or level of one ore more phosphorylated peptides as identified above in cells having a cell state and determining the degree of correlation between the presence, absence or level of phosphorylated polypeptide with the cell state), an isolated peptide of 5-50 amino acids comprising an amino acid sequence that is a subsequence of any of the protein sequences given in the specification (and which comprise a phosphorylation site within the subsequence), an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to characterizing phosphorylated polypeptides in a sample comprising dispesting the polypeptides with a protease thus generating test peptides, and collecting a fraction of test peptides that enriched for positively charged peptides. Also included are a method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Characterizing phosphorylated polypeptides in a sample comprises digesting the polypeptides with a protease thus generating test peptides, and collecting a fraction of test peptides that enriched for positively
                                                                                                                                                                    Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 16; Page 69; 123pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-JUN-2003; 2003US-0476010P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2004108948-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alzheimers disease; neuroprotective; nootropic; degeneration; tumor; neoplasm; neurological disease; phosphorylation; protein sequencing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2005-031720/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-JUN-2004; 2004WO-US017613
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phosphoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human phosphorylated peptide from phophoprotein #305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-MAR-2005 (first entry)
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                                               12 GEADAMSLDGG
        GEGEAASADDG
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X
                                                                                     Conservative
                                                                                                          26.1%;
                                               22
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                                                                                     ۲,
                                                                                                        Score 30; DB 9;
Pred. No. 2e+03;
                                                                                     Mismatches
                                                                                     4
                                                                                                                              Length 23
                                                                                     Indels
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                                                                                     Gaps
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RESULT 8
ABF54127
ID ABF5
XX
AC ABF5
XX
AC AEF5
AC AEF5
AC AF5
XX
DT 23-M
XX
DX V. m
Cher
KW haem
XX
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                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel isolated polypeptide comprising or consisting of two or more C35 peptide epicopes. The polypeptide of the invention demonstrates cytostatic activity and may be useful for the formulation of an immunogenic composition, such as a vaccine, to induce antibodies and cell-mediated immunity against target cells such as tumour cells. Furthermore, the polypeptide and its analogues may be useful as prognostic markers for carcinoma, such as human breast or bladder carcinoma. The current sequence is that of human breast/bladder carcinoma
             therapeutic; prophylaxis; neisseria meningitidis haemophilus influenzae infection; antibacterial;
                                                       N. meningitidis 2996 adhesin NadA HR2a extended SEQ ID
                                                                                    23-MAR-2006
                                                                                                                                        AEF54127 standard; peptide; 23
                                                                                                                                                                                                                                                                                                                         Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 148; 626pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel C35 polypeptide useful for formulation of immunogenic composition to induce antibodies and cell-mediated immunity against tumor cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zauderer M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-JUN-2002; 2002US-0386738P
11-DEC-2002; 2002US-0432241P
23-APR-2003; 2003US-0464650P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human carcinoma-related C35 epitope / gp100 Pme117 polytope peptide 751.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADK49860 standard; peptide; 23 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-JUN-2003; 2003WO-US018252.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYRP ) UNIV ROCHESTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (VACC-) VACCINEX INC
                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            epitope; cytostatic; vaccine; tumour; breast; bladder carcinoma;
an; polytope; gp100 Pme117.
                                                                                                                                                                                                                                                                                                                                                 polytope polypeptide
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                                                                                                                                                                                                                                                                 Similarity
6; Conserv
                                                                                                                                                                                                             TLEKITNSRPPCVLLDG
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                                                                                                                                                                                                                                                                                                                                                    The current sequence is that of human breast/bladder pe polypeptide of the invention.
                                                                                                                                                                                                                                                                                                                          AA;
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                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Evans EE,
                                                                                    entry)
                                                                                                                                                                                                                                                                                25.2%;
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Pred. No. 2.8e
3; Mismatches
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2.8e+03;
                                                                                                                                                                                                                                                                                             Length 23;
                             infection;
                                                        NO:30
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WO2006006074-A2

Neisseria meningitidis

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ARESULT 9
AAG63463
ID AAG6
XX AAG6
AC AAG6
XX Haem
KW Haem
KW haem
KW haem
KW apog
KW thro
KW anti
XX
FN WO20
PN WO20
PN 28-i
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a compound that can bind to the heptad repeat sequences HR1 and/or HR2 of the NadA and Hada adhesin on the surface of a meningococcus and haemophilus, respectively, thus inhibiting the ability of the meningococcus and haemophilus either to infect a host organism or to spread an existing infection. The compound is an oligopeptide or polypeptide, or a peptidomimentic compound of the oligopeptide, with anticulated and or anti-haemophilus activity. The invention also includes a pharmaceutical composition comprising the compound and a carrier; a method for treating a patient suffering from a meningococcal or haemophilus infection by administering to the patient the pharmaceutical composition; mutant NadA and HadA proteins, where the mutant protein lacks one or more of the HR1, HR2, or fusion sequences; a nucleic acid encoding the mutant protein; and a bacterium, which expresses the nucleic acid. The compound is useful as a medicament, for the manufacture of a medicament, and for treating a patient for meningococcal or haemophilus infection. This sequence is an extended Neisseria meningitidis 2996 adhesin NadA heptad repeat sequence HR2a.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                      Haematopoiesis; haematopoietic stem cell; cell differentiation; haematopoiesis proliferation; myoproliferative syndrome; cytoprotection; apoptosis; medullar expansion; inflammation; anglogenesis; myelofibrosis; thrombocytemia; Vasquez polyglobulia; chronic leukocytic leukemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New compound that binds to heptad repeat sequences HR1 or HR2 of NadA and HadA adhesin on the surface of meningococcus and haemophilus, useful for treating meningococcal or haemophilus infection.
                    28-JUN-2001
                                                                                         Synthetic
                                                                                                                           antiviral
                                                                                                                                                                                                                                Amino acid sequence of a peptide which is used in therapy.
                                                                                                                                                                                                                                                                                                                                          AAG63463 standard; peptide; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Masignani
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                                                        WO200146218-A2
                                                                                                                                                                                                                                                                       15-OCT-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2006-100915/10
                                                                                                                                                                                                                                                                                                                                                                                                                                  σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTEDSIAKIMN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 30; 39pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                    TNKDNIAKKAN 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24.3%;
54.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 28; DB 10;
Pred. No. 4.1e+03;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  syndromes; cytoprotection against cytotoxic effects, especially in protection of haematopoietic cells against apoptosis; medullar expansion or purging, in the treatment of medullar insufficiency or medullar grafts; treating inflammation; inhibiting pathological angiogenesis; or differentiating abnormal cells into healthy cells. They are also used for treatment of essential thrombocytemia, Vasquez polyglobulia, myelofibrosis and chronic leukocytic leukemia. The peptides also show some and inhibiting pathological and chronic leukocytic leukemia. The peptides also show some and inhibiting pathological activity, and are antagonists of chemokines of the CXC type and inhibiting pathological activity.
                                                                                                                                                                                                                                              Haematopoiesis; haematopoietic stem cell; cell differentiation; haematopoiesis proliferation; myoproliferative syndrome; cytoprotection; apoptosis; medullar expansion; inflammation; angiogenesis; myelofibrosis; thrombocytemia; Vasquez polyglobulia; chronic leukocytic leukemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAG63418-AAG63511 represent peptides which are used in therapy. The peptides are haematopoiesis inhibitors, haematopoietic stem cell proliferation stimulants, cell differentiation inducers, and chemokine antagonists. The peptides are used as a medicament for treating the harmful effects of chemotherapy on haematopoietic stem cells; inhibitin haematopoietic proliferation, in the treatment of myoproliferative
                                                                                                                                                                                                                                                                                                                                                                     15-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New eicosa-, tricosa- or pentacosa- to heptacosa-peptides, useful e.g. for stimulating hematopoietic stem cell proliferation after chemotherapy or radiotherapy or as antiinflammatory agents.
Alemany M,
                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                   AAG63471 standard; peptide; 23
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                               (VAIS-) INST VAISSEAUX & DU SANG
                                                                22-DEC-1999;
                                                                                               14-DEC-2000; 2000WO-FR003532
                                                                                                                                  28-JUN-2001
                                                                                                                                                                  WO200146218-A2
                                                                                                                                                                                                                                  anciviral.
                                                                                                                                                                                                                                                                                                                                  Amino acid sequence of a peptide which is used
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 15; 33pp;
 Caen JP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                99FR-00016273.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23.5%;
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 Han ZC;
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Pred. No. 6e+03;
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                                                                                                                                                                                                                                                                                                                                    in therapy.
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RESULT 11
AAG63466
ID AAG63
XX AAG63
AC AAG63
XX Amino
XX Haema
KW Haema
KW Haema
KW Apopt
KW throm
KW Apopt
KW Chrom
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Pred. No. 6e+03;
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                                                                                   CC AAG63418-AAG63511 represent peptides which are used in therapy. The CC peptides are haematopoiesis inhibitors, haematopoietic stem cell coroliferation stimulants, cell differentiation inducers, and chemokine CC proliferation stimulants, cell differentiation inducers, and chemokine CC antagonists. The peptides are used as a medicament for treating the CC harmful effects of chemotherapy on haematopoietic stem cells; inhibiting CC haematopoietic proliferation, in the treatment of myoproliferative Syndromes; cytoprotection against cytotoxic effects, especially in CC protection of haematopoietic cells against apoptosis; medullar expansion CC protection of haematopoietic cells against apoptosis; or medullar expansion or purging, in the treatment of medullar insufficiency or medullar grafts (treating inflammation; inhibiting pathological angiogenesis; or CC differentiating abnormal cells into healthy cells. They are also used for CC treatment of essential thrombocytemia, Vasquez polyglobulia, CC myelofibrosis and chronic leukocytic leukemia. The peptides also show some antiviral activity, and are antagonists of chemokines of the CXC type and subfamily ELR, especially IL-8, NAP2, groalpha, grobeta and
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                                                                                                                                                                                              CC AAG63418-AAG63511 represent peptides which are used in therapy. The CC peptides are haematopolesis inhibitors, haematopoletic stem cell continuous provides are haematopolesis inhibitors, haematopoletic stem cell contagonists. The peptides are used as a medicament for treating the CC antagonists. The peptides are used as a medicament for treating the CC harmful effects of chemotherapy on haematopoletic stem cells; inhibiting CC haematopoletic proliferation, in the treatment of myoproliferative CC syndromes; cytoprotection against cytotoxic effects, especially in CC protection of haematopoletic cells against apoptosis; medullar expansion CC programs, in the treatment of medullar insufficiency or medullar grafts; treating inflammation; inhibiting pathological angiogenesis; or CC differentiating abnormal cells into healthy cells. They are also used for CC treatment of essential thrombocytemia, Vasquez polyglobulia, CC myelofibrosis and chronic leukocytic leukemia. The peptides also show come antiviral activity, and are antagonists of chemokines of the CXC Cype and subfamily ELR, especially IL-8, NAP2, groalpha, grobeta and
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                                                                                                                                                    Sequence 23 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Amino acid sequence of a peptide which is used in therapy.
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C)ACCEMBARMING C.A.; Yeates, T.O.; Thornber, J.F.
R;Kerfeld, C.A.; Yeates, T.O.; Thornber, J.F.
Biochemistry 33, 2178-2184, 1994
A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and characterization of the peripheral antenna of the A;Title: Purification and Characterization and Characterization
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                                                                                                                                                  A;Reference number: A54226;
A;Accession: B54226
A;Status: preliminary
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A;Note: sequence extracted from NCBI backbone (NCBIP:136438)
C;Complex: The enzyme appears to be a heterodimer of alpha and beta C;Function:
A;Molecule type: protein
A;Residues: 1-23 <KER>
A;Cross-references: UNIPF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-23 <MCG>
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Am. J. Respir. Cell Mol. Biol. 8, 201-208, 1993
A;Title: Cystic fibrosis gene and protein expression during
A;Reference number: I51922; MUID:93152187; PMID:7678968
A;Accession: I51922
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     UNIPROT:Q7M0J4; UNIPARC:UPI000017CAD4
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Pred. No. 1.1e+04;
Viematches 2;
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Pred. No. 1.1e+04;
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     RESULT 8
S47194
T-cell receptor of C; Species: Homo 6
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A; Gene: aspC
C; Superfamily
C; Keywords: a
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C;Species: Klebsiella pneumoniae
C;Date: 10-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A43872
R;Darfeuille-Michaud, A.; Jallat, C.; Aubel, D.; Sirot, D.; Rich, C.; Sirot, J.; Joly, B
Infect. Immun. 60, 44-55, 1992
A;Title: R-plasmid-encoded adhesive factor in Klebsiella pneumoniae strains responsible A;Reference number: A43872; MUID:92104695; PMID:1345909
A;Accession: A43872
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A43872
                                                                                                                                          A;Cross-references: UNIPROT:Q9R2G4; UNIPARC:UPI00000B3816
A;Experimental source: strain CF504, R plasmid
A;Note: sequence extracted from NCBI backbone (NCBIP:7436)
C;Superfamily: fimbrial adhesin K88
                                                                                                                                                                                                                  A,Status: preliminary, not compared with conceptual translation A,Molecule type: nucleic acid A,Residues: 1-23 <DAR>
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A;Title: Functional and regulatory analysis of the OmpF-like A;Reference number: S70779; MUID:96414477; PMID:8817498
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A; Residues: 1-23 < FOR>
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C;Date: 11-Mar-1998 #sequence_revision 17-Apr-1998 #text_change
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Pred. No. 1.1e+04;
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backbone (NCBIP:74360)
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wnVI.4 (man)

human

(fragment)

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R;Maier, R.M.; Neckermann, K.; Igloi, G.L.; Koessel, H. J. Mol. Biol. 251, 614-628, 1995
A;Title: Complete sequence of the maize chloroplast genome: A;Reference number: S58531; MUID:95395841; PMID:7666415
A;Accession: S58624
A;Status: nucleic acid sequence not shown; translation not s
                                                                                                                                   hypothetical protein 23 - maize chloroplast
C;Species: chloroplast Zea mays (maize)
C;Date: 29-Nov-1995 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
C;Actes: 598624; $58609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Shimada, H.; Whittier, R.F.; Hiratsuka, J.; submitted to JIPID, December 1989 A;Reference number: JQ0200 A;Accession: JQ0281
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A; Accession: S47194
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A; Residues: 1-23 <HIR>
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A;Status: nucleic acid sequence not
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A; Title: The
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A; Residues: 1-23 < PLA>
A;Molecule type: DNA
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Pred. No. 1.6e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                             Score 19; DB 2; Le
Pred. No. 1.6e+04;
1; Mismatches 6;
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1.6e+04;
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                                                                               gene
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A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Moslecule type: DNA
A;Residues: 1-23 <RES>
A;Cross-references: UNIPARC:UPI00000008D5; GB:M11892; NID:g191914; PIDN:AAA37225.1;
C;Superfamily: alpha-amylase, standard type; alpha-amylase core homology

Matches Query Match Best Local

Local Similarity les 3; Conserv

Conservative

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Mismatches

Indels

0

Gaps

0

PID:

15.7%;

Score 18; DB 2; Pred. No. 2.3e+04;

Length 23;

A;Reference number: I49489; MUID:86033801; PMID:2414282

R;Gumucio, D.L.; Wiebauer, K.; Dranginis, A. J. Biol. Chem. 260, 13483-13489, 1985 A;Title: Evolution of the amylase multigene

C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 31-Dec-2004
C;Accession: I49492

A.; Samuelson, L.C.; Treisman, L.O.; Caldwell,

express a pancreatic

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RESULT

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A;Map position: IR(A)
A;Genome: chloroplast
C;Genetics: <GEN2>
A;Map position: IR(B)
                                                                                                                                         A; Note:
C; Keywor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Genome: chloroplast C;Keywords: chloropla
                                                                                                                                                                                                                            A; Reference number: S78411
A; Accession: S78417
                                                                                                                                                                                                                                                                                                                 ribosomal protein RL31, mitochondrial [validated] - rat (tentative sequence C; Species: Rattus norvegicus (Norway rat) C;Date: 25-Feb-1998 #sequence_revision 13-Mar-1998 #text_change 21-Jul-2000
                                                                                                                                                                                             A;Molecule type: protein
A;Residues: 1-23 <GOL>
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A;Note: the nucleotide
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A;Residues: 1-23 <MAW>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Note: the nucleotide sequence was submitted to the EMBL Data Library,
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                                                                                                                                                                                                                                                                                                    Accession: S78417
                                                                                                                                     Cross-references: UNIPARC:UPI000017C9B5; Ote: the protein is designated as mitochondrial; Reywords: mitochondrion; protein biosynthesis; r:
                                                                      Matches
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Best Local S
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STYXSLXDDYNXKVELALXXDG
                                                                    Conservative
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27.3%;
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Database,
                                                                                     Score 18.5; DB 2;
Pred. No. 1.9e+04;
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Pred. No. 1
23
                                                                      Mismatches
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photosystem I 8.0K G chain - common tobacco (fragment)
C;Species: Nicotiana tabacum (common tobacco)
C;Date: 19-May-1994 #sequence_revision 19-May-1994 #text_change 17-Mar-1999
C;Accession: PQ0690
R;Obokata, J; Mikami, K.; Hayashida, N.; Nakamura, M.; Sugiura, M.
Plant Physiol. 102, 1259-1267, 1993
A;Title: Molecular heterogeneity of photosystem I. psaD, psaE, psaF, psaH an A;Reference number: PQ0667; MUID:94105345; PMID:8278548
A;Accession: PQ0667
A;Molecule type: protein
A;Residues: 1-23 <080>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    slow muscle tropomyosin - Atlantic salmon (fragment)
C;Species: Salmo salar (Atlantic salmon)
C;Otate: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 09-May-1997
C;Accession: S66449
R;Heeley, D.H.; Bieger, T.; Waddleton, D.M.; Hong, C.; Jackman, D.M.; McGowan, C.; David Eur. J. Biochem. 232, 226-234, 1995
A;Title: Characterisation of fast, slow and cardiac muscle tropomyosins from salmonid fi A;Reference number: S66449; MUID:96048051; PMID:7556155
A;Accession: S66449
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tissue kallikrein (BC 3.4.21.35) 17K chain, submandibular - mouse (fragment) (Species: Mus musculus (house mouse) (C;Species: Mus musculus (house mouse) (C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 30-Sep-1993 C;Accession: S06660 R;Murakami, K.; Ikigai, H.; Nagumo, N.; Tomita, M.; Shimamura, T. PBBS Lett. 257, 400-402, 198 A;Title: A cytocidal tissue kallikrein isolated from mouse submandibular glands. A;Reference number: S06660; MUID:90060365; PMID:2583286 A;Accession: S06660; MUID:90060365; PMID:2583286 A;Accession: S06660 A;Molecule type: protein A;Residues: 1-23 kMUR> A;Cross-references: UNIPARC:UPI0000175BD1
                                                                                                                                                                                                                                                                                              RESULT 15
PQ0690
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A;Residues: 1-23 <HEE>
A;Cross-references: UNIPARC:UPI00001775DE
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C;Superfamily: trypsin; trypsin homology
C;Keywords: hydrolase; serine proteinase
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100.0%; Pred. No. 2.3e+04;
tive 0; Mismatches 0;
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A;Cross-references: UNIPARC:UPI0000926B1
C;Superfamily: photosystem I chain V
C;Keywords: chloroplast; photosynthesis; photosystem I; thylakoid
Query Match
Best Local Similarity 100.0%; Pred. No. 2.3e+04;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps
Qy
21 GGF 23
Db 19 GGF 21
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Search completed: June 13, Job time : 41 secs

2006, 02:10:04

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Tue Jun 13 08:52:45 2006
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Title:
Perfect score:
Sequence:
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Maximum Match 100%
Listing first 45 summaries
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UniProt_7.2:*
1: uniprot_sprot:*
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1 TTEDSIAKIMNGEADAMSLDGGF 23
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

	Result No.
20 20 20 20 20 20 20 20 20 20 20 20 20 2	Score
111111111111111111111111111111111111111	Query Match
32222222222222222222222222222222222222	Length
000000011100000000001100000000	DB 2
GGE6 GGE6 GGE6 GGE6 GGE6 GGE6 GGE6 GGE6	ID 
	Description O714u0 amphora cof

RESULT 2  Q4XJB6 PLACH ID Q4XJB6; AC Q4XJB6; DT 05-JUL-2005, integrated into UniProtKB/TrEMBL. DT 05-JUL-2005, sequence version 1. DT 07-FBB-2006, entry version 4. DE Hypothetical protein (Fragment). GN ORFNames=PC400634.00.0; OS Plasmodium chabaudi. CC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium. OX NCBI_TaxID=5825; RN [1] RP NUCLECTIDE SEQUENCE. RX PubMed=15637271; DOI=10.1126/science.1103717;	Query Match 20.0%; Score 23; DB 2; Length 23; Best Local Similarity 55.6%; Pred. No. 5.3e+04; Matches 5; Conservative 2; Mismatches 2; Indels 0  Qy 6 IAKIMNGEA 14 [:  :     Db 8 ISKIINRNA 16	SOTIDE SEQUENCE.  M=CCMP126; ed=14681369; DOI=10.1093/nar/gkh102; au de Novoa P., Williams K.P.; tmRNA website: reductive evolution of tmRNA in plastids yrmbionts."; eic Acids Res. 32:D104-D108(2004).  sic Acids Res. 32:D104-D108(2004).  righted by the UniProt Consortium, see http://www.uniprotibuted under the Creative Commons Attribution-NoDerivs par550350; AAQ12666.1; -; Genomic_DNA.  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESULT 1  Q714U0 9STRA ID Q714U0; AC Q714U0; DT 05-JUL-2004, integrated into UniProtKB/TrEMBL. DT 05-JUL-2004, sequence version 1. DT 07-FEB-2006, entry version 7. DT TMRNA proteolysis tag (Fragment). GN Name=serA; OS Amphora coffaeiformis. OC Eukaryota; stramenopiles; Bacillariophyta; Bacillariophyceae; OC Bacillariophycidae; Thalassiophysales; Catenulaceae; Amphora. ON NCBI TaxID=59797; DN (11) —TAXID=59797;	32 20 17.4 23 2 Q70ZT6 9BRAD 33 20 17.4 23 2 Q7M0J4 MARPU 34 20 17.4 23 2 Q8KHT3 MYCHO 35 20 17.4 23 2 Q9KHT3 MYCHO 36 20 17.4 23 2 Q9KHT3 MYCHO 37 19.5 17.0 23 2 Q9MGT9_CYPCA 38 19 16.5 23 2 Q9MGT9_CYPCA 40 19 16.5 23 2 Q5CCK7 HUMAN 40 19 16.5 23 2 Q96EJ6 HUMAN 41 19 16.5 23 2 Q4YLP7_PLABE 42 19 16.5 23 2 Q4YLP7_PLABE 43 19 16.5 23 2 Q4YLP7_PLABE 44 19 16.5 23 2 Q4YLP7_PLABE 45 19 16.5 23 2 Q9MIP9_SHEEP 46 19 16.5 23 2 Q9MIP9_SHEEP 47 19 16.5 23 2 Q9GLD1_BOVIN 48 19 16.5 23 2 Q9GLD1_BOVIN 49 16.5 23 2 Q9GLD1_BOVIN
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ID QTRSSB PLAYO
AC QTRSSB;
DT 15-DEC-2003, s
DT 16-DEC-2003, s
RN QFRAMMSB-7041
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RN NUCLEOTIDE SEC
RC STRAIN=17XNL;
RN CATILON J.M.,
RA Silva J.C., Ex
RA Cho J.K., Ouac
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Query Match
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                                                                                                                           EMBL; AABL01001282; EAA16099.1; -; Genomic_DNA.
                                                                                                                                                                                     Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                            "Genome sequence and comparative analysis of the parasite Plasmodium yoelii yoelii.";
Nature 419:512-519(2002).
-i- CAUTION: The sequence shown here is derived f
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Eukaryota; Alveolata; Api
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Hypothetical protein (Fragment).
ORFNames=PY04268;
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B.L., Janssen C.S., Pain A., Christophic
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                                                                                       NUCLEOTIDE SEQUENCE.

MEDLINE-99265967; PubMed=10331940; DOI=10.1006/geno.1999.

Li R., Mignot E., Faraco J., Kadotani H., Cantanese J., Z

Lin X., Hinton L., Ostrander E.A., Patterson D.F., de Jon

"Construction and characterization of an eightfold redund
genomic bacterial artificial chromosome library.";
Genomics 58:9-17(1999).
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01-MAY-2000, sequence version 1.
07-FEB-2006, entry version 12.
Collagen type IV 26 kDa component (Fragment).
Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                    Canis familiaris (Dog).
Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Cranivora; Fissipedia; Canidae;
NUCLEOTIDE SEQUENCE.
Kodatani H., Mignot
Submitted (NOV-1998)
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01-NOV-1999, sequence version
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type IV in dogs and humans with hereditary nephritis.";
Submitted (FEB-1993) to the EMBL/GenBank/DDBJ databases.
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Thorner P.S., Baumal R.,
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de Jong P.J.
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RESULT 6
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Q53WU4;
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NON_TER
NON_TER
SEQUENCE
                                                                    Q68983;
01-NOV-1996, integrated into UniProtKB/TrEMBL
01-NOV-1996, sequence version 1.
07-FEB-2006, entry version 16.
Glycoprotein C precursor (Fragment).
                                                                                                                                                                                            93_9ALPH
Q68983_9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-MAY-2005, integrated into UniProtKB/TrEMBL.
24-MAY-2005, sequence version 1.
07-FBB-2006, entry version 3.
Gene for alpha 2 (IV) collagen (exon 7) (Fragment).
Name=gC;
Suid herpesvirus 1 (Pseudorabies virus)
Viruses; dsDNA viruses, no RNA stage; H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=85296379; PubMed=3839908;
Kurkinen M., Bernard M.P., Barlow D.P., Chow L.T.;
"Characterization of 64-, 123- and 182-base-pair exons in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PROSITE; PS00485; A DEAMINASE; ŪNKNOWN_1.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            alpha 2(IV) collagen gene.";
Nature 317:177-179(1985).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ensembl; ENSMUSG00000031503; Mus musculus.
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23.1%;
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       RNA stage; Herpesviridae;
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Pred. No. 7.5e+04;
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Pred. No. 7
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RESULT 9

G9PRSO GADMO

ID Q9PRSO_GADMO PRELIMINARY;

AC Q9PRSO;

DT 01-MAY-2000, integrated into U

DT 01-MAY-2000, sequence version
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91_9ALPH
Q69391_9ALPH
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                                                                                                                                                                                                                                                                   MEDLINE=95081163; PubMed=7989378;
Tomilo M., Wilkinson K.S., Ryan P.;
"Can a signal sequence become too hydrophobic?";
J. Biol. Chem. 269:32016-32021(1994).
                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=10345;
                                                                                                                                                                                                                                                                                                                                                    Suid herpesvirus 1 (Pseudorabies virus)
Viruses; dsDNA viruses, no RNA stage; H
Alphaherpesvirinae; Varicellovirus.
                                                                                                                                                                                                                                                                                                                                                                                             07-FEB-2006, entry version
Glycoprotein C precursor (F
                                                                                                                                                                                                                                                                                                                                                                                                          01-NOV-1996, sequence version 07-FEB-2006, entry version 16.
                                                                                                                                                                                                               EMBL; L36969; AAA79966.1;
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                                                                                                                                                                                                                                                                                                               STRAIN=Becker
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tomilo M., Wilkinson K.S., Ryan P., "Can a signal sequence become too hyd J. Biol. Chem. 269:32016-32021(1994).
                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE.
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Tomilo M., Wilkinson K.S., Ryan F
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NCBI_TaxID=10345;
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                                                                                                                                        Score 22; DB 2;
Pred. No. 7.5e+04
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Pred. No. 7.
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7.5e+04;
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integrated into UniProtKB/TrEMBL

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NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                            J. Chem. Res. 138:910-936(1993).

-!- FUNCTION: Antibacterial peptide, that adopts an conformation which can disrupt bacterial membra: displays a different antimicrobial specificity.
-!- SUBCELLULAR LOCATION: Secreted protein.
-!- TISSUE SPECIFICITY: Expressed by the skin parote
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P56244;
15-JUL-1998, integrated into UniProtKB/Swiss-Prot.
15-JUL-1998, sequence version 1.
07-FEB-2006, entry version 27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Parotoid gland;
Stone D.J.M., Waugh R.J.,
"Peptides from Australian
Litoria caerula.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Litoria caerulea (Green tree frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphiba; Batrachia; Anura; Neobatrachia; Hyloidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Raae A.J., Flengsrud R., Sletten K.; "Chymotrypsin isoenzymes in Atlantic cod; differences substrate specificity."; Comp. Biochem. Physiol. 112B:393-398(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PROTEIN SEQUENCE:
MEDLINE=96043258; PubMed=7584866; DOI=10.1016/0305-0491(95)00094-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acaathomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.
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                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                           Distributed under the Creative Commons Attribution-NoDerivs License
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                                                                                                                                                                                                                           Amidation; Amphibian defense peptide; Antibiotic; Antimicrobial;
                                                                                                                                                                                                                                                                                                                                           -!- MASS SPECTROMETRY: Mw=2353; METHOD=FAB; RANGE=1-23; NOTE=Ref.1.
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Local Similarity nes 5; Conserv
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     Score 21; DB 1; Length 23; Pred. No. 1.1e+05; O; Mismatches 6; Indels
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Pred. No. 7.
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Hylidae;
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RESULT 12
Q9HCW9_HUMAN PRELIMINARY; PRT; 23 AA.
ID Q9HCW9;
AC Q9HCW9;
DT 01-MAR-2001, integrated into UniProtKB/TrEMBL.
DT 01-MAR-2001, sequence version 1.
DT 07-FEB-2006, entry version 10.
DE Growth hormone receptor (Fragment).
Name=GHR;
GN Name=GHR;
OS Homo sapiens (Human).
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G6PI CA
G6PI CA
AC P83780
DT 04-JAN
DT 07-FEB
DE Glucos
DE isomer
GN Name-p
OS Candid
OC Eukary
OC Saccha
CA PFOTEI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G6PI CAL
P83780;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       phosphate.
-!- PATHWAY: Carbohydrate degradation; glycolysis; D-glyceraldehyde
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04-JAN-2005,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; IPR001672; G6P_Isomerase.
PROSITE; PS00765; P_GLUCOSE_ISOMERASE_1;
PROSITE; PS00174; P_GLUCOSE_ISOMERASE_2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -!- CATALYTIC ACTIVITY: D-glucose 6-phosphate =
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MISCELLAURBOUS: Has antigenic properties. Elicits a spec response in systemic candidiasis human patients undergomalignant hematological disorders.
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0; Mismatches
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Best Local :
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"Identification of eight homeobox-containing transcripts expressed during larval development and at metamorphosis in the gastropod mollusc Hallotis rufescens.";
Mol. Mar. Biol. Biotechnol. 2:1-9(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE.
Orlovsky I.V., Sverdlova P.S., Rubtsov P.M.;
Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                    Nuclear protein.
NON_TER 1
NON_TER 23
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MEDLINE=93372986; PubMed=7689904;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Haliotis rufescens (California red abalone).
Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
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                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                       EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (MAY-1994) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vetigastropoda; Haliotoidea; Haliotidae; Haliotis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.
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                                                                                      Local Similarity
les 5; Conserv
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                                                                                                                                                                                                                                                                       GO:0005634; C:nucleus;
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11
                                                                                                                                                                                                                                                                                                                   X79375; CAA55920.1; -; mRNA.
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EALALKLD
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57.1%;
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                                                                                                           18.3%;
62.5%;
                                                                                                                                                                                                                                                                            IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       activity; IEA.
                                                                                      1;
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                                                                                                           Score 21; DB 2;
Pred. No. 1.1e+05;
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Pred. No. 1.1e+05;
                                                                                                                                                                                 56D81AE184E2843D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9AD833A0F1DD699E CRC64;
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Attribution-NoDerivs License
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                                                                                        <u>ب</u>
                                                                                                                                 Length 23;
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Q4XCL2_PLACH
ID Q4XCL2_P
AC Q4XCL2_P
DT 05-JUL-2
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Best Local
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Q7RWK7;
15-DEC-2003, integ
15-DEC-2003, seque:
07-FEB-2006, entry
Hypothetical prote
ORFNames=PY02172;
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Q4XCL2;
05-JUL-2005,
MEDLINE=2225706; PubMed=12368865; DOI=10.1038/nature01099; Carlton J.M., Angiuoli S.V., Suh B.B., Kooij T.W., Pertea M. Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L., Selerson J.D., Pop M., Kosack D.S., Shumway M.F., Bidwell S.L., Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V., Cho J.K., Quackenbush J., Sedegah M., Shoaibi A., Cummings L.M., Florens L., Yates J.R. III, Raine J.D., Sinden R.E., Harris M.A., Cunningham D.A., Preiser P.R., Bergman L.W., Vaidya A.B., van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R., Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.J.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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07-FEB-2006, entry vers
Hypothetical protein (FORFNames=PC403366.00.0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Alveolata;
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Science 307:82-86 (2005).
-i- CAUTION: The sequence shown here is derived f
EMBL/GenBank/DDBJ whole genome shotgun (WGS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE.
PubMed=15637271; DOI
                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=17XNL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=73239;
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1; Mismatches 1;
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Result
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Maximum Match
Listing first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Title:
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      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      seq
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Match
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l: /EMC_Celerra_SID
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/EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/FCTUS_COMB.pep:*
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US-08-860-808E-25

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US-08-903-338-27

US-08-903-383-27

US-08-908-940-7

US-09-128-450-7

US-09-128-494-7

US-09-220-731-18

US-09-281-527A-17

US-09-128-458-17

US-09-128-18-18-18

US-09-17-1214-5

US-08-112-208C-13

US-08-112-208C-13

US-08-112-208C-13

US-08-112-208C-13

US-08-113-13

US-08-113-13
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Sequence 14, Appl
Sequence 25, Appl
Sequence 27, Appl
Sequence 27, Appl
Sequence 27, Appl
Sequence 27, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 17, Appl
Sequence 18, Appl
Sequence 19, Appl
Sequence 13, Appl
Sequence 52, Appl
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
22	22	22	22	22.5	22.5	22.5	22.5	23	23	23	23	23	23	23	23	23	23	23
19.1	19.1	19.1	19.1	19.6	19.6	19.6	19.6	20.0	20.0	20.0	20.0	20.0		20.0		20.0	20.0	20.0
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US-08-470-339-215	US-08-470-335-215	US-08-341-018-34	US-08-486-953A-44	US-08-462-040-54	US-08-460-971A-54	US-08-167-641C-54	US-08-460-890A-54	5254535-24	5221732-4	5221732-3	US-10-071-214-4	US-09-974-026-54	US-09-820-053A-146	US-09-270-767-58329	US-09-270-767-53803	US-09-270-767-38586	US-10-147-936B-19	US-09-502-829-1
Sequence :	Sequence :	Sequence :	Sequence '	Sequence !	Sequence!	Sequence !	Sequence !	Patent No.	Patent No.	Patent No.	Sequence '	Sequence !	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
	'n	34, Appl	44, Appl	•	54, Appl	•	54, Appl	5254535	5221732	5221732	4, Appli	54, Appl	146, App	58329, A	53803, A	38586, A	19, Appl	1, Appli

## ALIGNMENTS

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US-08-568-1478-14
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                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/568,147B

FILING DATE:

CLASSIFICATION 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 800,952

APPLICATION NUMBER: 800,952

FILING DATE: 02-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: DIGIGION FTANKS:

REGISTRATION NUMBER: 31,346

REGISTRATION NUMBER: 31,346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14, Application US/08568147B Patent No. 5783422
Query Match
Best Local Similarity
                                                                                                                                                                                                TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                   LENGTH: 23 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                    SEQUENCE CHARACTERISTICS
LENGTH: 23 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Kato, Hiroshi
APPLICANT: Sekiquchi, Kiyoshi
APPLICANT: Takeda, Katsumichi
TITLE OF INVENTION: DNA FRAGMENT CODING FOR SQUAMOUS CELL
TITLE OF INVENTION: CARCINOMA-ASSOCIATED ANTIGEN
NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8425
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
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28.7%;
Score 33;
Pred. No.
DB 1;
1e+02;
                    Length
                       23;
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US-08-860-808E-25
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US-08-178-477B-17
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                                      GENERAL INFORMATION:
APPLICANT: HEMKER,
APPLICANT: RIJKERS,
APPLICANT: TESSER,
                                                                                                   Sequence 25, Application US/08860808E Patent No. 6207399
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                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/617,910
FILING DATE: 26-NOV.1990
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: CAROL M. GRUPPI
REGISTRATION NUMBER: 37,341
REFERENCE/DOCKET NUMBER: 2026-4103U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: WU, CA
APPLICANT: WESTWO
           TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
COPERATING SYSTEM: PC-DOS/MS-D
SOFTWARE: WORDDERFECT 5.1
CURRENT APPLICATION DATA:
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: WU, CARL; CLOS, JOACHIM;
APPLICANT: WESTWOOD, J. TIMOTHY.; RABINDRAN, SRIDHAR
TITLE OF INVENTION: CELL STRESS
TITLE OF INVENTION: TRANSCRIPTIONAL FACTORS
NUMBER OF SEQUENCES: 42
CONDECCONTRACT
                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
                                                                                                                                                                                                                                                 24.3%;
Local Similarity 43.8%;
es 7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 345 PARK AVENUE CITY: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX:
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                                                     HEMKER, HENDRIK C
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GODEFRIDUS I
METHODS OF DETERMINING ENDOGENOUS THROMBIN POTENTIAL
(etp) AND THROMBIN SUBSTRATES FOR USE IN SAID METHODS
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Pred. No. 7e+02;
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APPLICANT:
APPLICANT:
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                                                                                                                                                                  TOPOLOGY:
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CURRENT APPLICATION NUMBER: US/08/860,808E; CURRENT FILING DATE: 1997-09-05; NUMBER OF SEQ ID NOS: 25; SOFTWARE: Patentin Ver. 2.0; SEQ ID NO 25; LENGTH: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Description of Artificial Sequence:peptide US-08-860-808E-25
                                                               , MOLECULE TYPE: protein US-07-936-163-41
                                                                                                                                                                           TELEPHONE: (517) 636-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: ZINDRICK, THOMAS D
REGISTRATION NUMBER: 32,185
REFERENCE/DOCKET NUMBER: C-38,424A
                                                                                                                                                            SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: INSECTICIDAL PROTEINS AND METHOD FOR TITLE OF INVENTION: PLANT PROTECTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   y Match 23.5%;
Local Similarity 41.7%;
hes 5; Conservative
                                                                                                         LENGTH: 23 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 27-AUC CLASSIFICATION: 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 9002 PURDU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: THOMAS D. ZIN
STREET: 9002 PURDUE ROAD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HOUTCHENS, ROBERT STRICKLAND, JAMES
 Conservative
                                                                                           linear
                                                                                                                                                                                                                                                                                                     27-AUG-1992
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                                                                                                                                                                                          636-1869
                22.6%;
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               Score 26;
Pred. No.
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Pred. No. 1e+03;
   Mismatches
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                DB 1;
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                              Length 23
Indels
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NUMBER OF SEQUENCES:

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US-08-093-383-27
; Sequence 27, Application US/08093383
; Patent No. 5489529
                                                                                                                                                                 RESULT 6
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US-08-093-383-23
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                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
TYPE: amino acid
                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 6; Conserv
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Patent No. 5489529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/619827
PILING DATE: 28-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/19824
FILING DATE: 05-APR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 06/632361
FILING DATE: 19-UUL-1984
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 06/303687
FILING DATE: 18-SEP-1981
APPLICATION NUMBER: 06/303687
PRIOR APPLICATION NUMBER: 06/303687
                                                                                 GENERAL INFORMATION:
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                 APPLICANT: DeBoer, Herman A.
APPLICANT: Heyneker, Herbert L.
APPLICANT: Seeburg, Peter H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3562
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Genented, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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OPERATING SYSTEM: PC-DOS/MS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Seeburg, Peter H.
TITLE OF INVENTION: DNA for Expression of Bovine Growth Hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Johnston, Sear REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/093,383 FILING DATE: 14-JUL-1993
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , Sean A.
, Sean A.
, 935,910
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75.0%;
DNA for Expression of Bovine Growth Hormone
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0; Mismatches
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Best Local Similarity
Matches 6; Conservi
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US-08-808-550-26
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TELEX: 910/371.7168
INFORMATION FOR SEQ ID NO: 27
SEQUENCE CHARACTERISTICS:
FRIGHT: 23 amino acids
                                                                                                                                                                                                                                                                                        Sequence 26, Application US/08808550 Patent No. 5871992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UMBER: 07/619827
FILING DATE: 28-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION UMBER: 07/198824
FILING DATE: 05-APR-1988
PRIOR APPLICATION DATA:
APPLICATION UMBER: 06/632361
PILING DATE: 19-JUL-1984
PRIOR APPLICATION DATA:
APPLICATION UMBER: 06/303687
FILING DATE: 18-SEP-1981
                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/093,383
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                        APPLICANT: Teebor, George W.
APPLICANT: Hilbert, Timothy P.
TITLE OF INVENTION: MAMMALIAN ENDONUCLEASE III AND
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Johnston, Sean A.
REGISTRATION NUMBER: P35,910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch,
                                                                                                                                                              NUMBER OF SEQUENCES: 4:
CORRESPONDENCE ADDRESS:
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TELEPHONE: 415/225-3562
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS: ADDRESSEE: Genentech,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 14-JUI
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CITY: South San Francisco
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STREET: 46
                                                    COUNTRY:
                                                                         STATE: New Jersey
                                                                                            CITY: Hackensack
                                                                                                           STREET: 411 H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                 ADDRESSEE:
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    David A. Jackson, Esq.
    Hackensack Ave, Continental Plaza,

                                                          USA
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75.0%;
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Pred. No. 2.2e+03;
Prediches 2;
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APPLICANT: Cheebro, Bruce W
APPLICANT: Caughey, Byron W
APPLICANT: Chabry, Joelle
APPLICANT: Chabry, Joelle
APPLICANT: Priola, Susette
TITLE OF INVENTION: Inhibitors of Formation of Protease Resistant Prion
TITLE OF INVENTION: Protein
FILE REFERENCE: 50121
CURRENT APPLICATION NUMBER: US/09/128,450
CURRENT FILING DATE: 1998-08-03
NUMBER OF SEQ ID NOS: 29
SOOTWARE: Patentin Ver. 2.0
SEQ ID NO 7
LENGTH: 23
TYPE: PRT
ORGANISM: Hamster sp.
                                                                    RESULT 9
US-09-220-731-18
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Sequence 18, Application US/09220731A Patent No. 6232088 GENERAL INFORMATION: APPLICANT: Phairson Medical, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acide
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                Matches
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/808,550 FILING DATE: 26-FEB-1997 CLASSIFICATION: 435 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1049-1-001 N
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
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Local Similarity 31.8%;
les 7; Conservative
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Pred. No. 3.2e+03
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Pred. No. 3.2e+03;
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US-08-981-527A-17

Sequence 17, Application US/08981527A Patent No. 6410262 GENERAL INFORMATION: APPLICANT: Quax, Wilhelmus J.

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APPLICANT: Richard L. Franklin
APPLICANT: Yves St. Pierre
TITLE OF INVENTION: Treatment and Prevention of Immune
TITLE OF INVENTION: Rejection Reactions
FILE REFERENCE: 314572-101D
CURRENT APPLICATION NUMBER: US/09/220,731A
CURRENT FILING DATE: 1998-12-24
EARLIER RILING DATE: 1998-12-24
EARLIER FILING DATE: 1998-12-24
EARLIER APPLICATION NUMBER: 08/338,501
EARLIER APPLICATION NUMBER: 08/338,501
EARLIER APPLICATION NUMBER: 08/385,540
EARLIER APPLICATION NUMBER: 08/385,540
EARLIER FILING DATE: 1995-02-08
EARLIER FILING DATE: 1995-02-08
EARLIER FILING DATE: 1995-02-08
EARLIER FILING DATE: 1995-02-08
EARLIER APPLICATION NUMBER: 08/600,273
EARLIER APPLICATION NUMBER: 08/600,273
EARLIER APPLICATION NUMBER: 08/600,273
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PRIOR FILING DATE: 1998-08-03
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-823-494-7
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Best Local Similarity
"Atches 4; Conser
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Patent No. 6355610
GENERAL INFORMATION:
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 18
LENGTH: 23
TYPE: PRT
                                                                        Matches
                                                                                           Best Local
                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Chesebro, Bruce W
APPLICANT: Caughey, Byron W
APPLICANT: Chabry, Joelle
APPLICANT: Priola, Susette
TITLE OF INVENTION: Inhibitors of Formation
TITLE OF INVENTION: Protein
                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/823,494
CURRENT FILING DATE: 2001-03-30
                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 50121
                                                                                                                                                                 LENGTH: 23
TYPE: PRT
ORGANISM: Hamster sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 NGEADAMSLDGGF 23
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                                                                      l Similarity
7; Conserv
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                                 KIMNGEADAMSLDGG 22
KHMAGAAAAGAVVGG
                                                                        Conservative
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                                                                        Score 24; DB Pred. No. 3.2e 2; Mismatches
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Pred. No. 3
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                                                                                                                                                                                 RESULT 13
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                                                                                               Sequence 60291, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
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GENERAL INFORMATION:
APPLICANT: Quax, Wilhelmus J.
APPLICANT: Kerkman, Richard
APPLICANT: Broekhuizen, Cornelis P.
TITLE OF INVENTION: No. 6692951el Secretion Factors for
TITLE OF INVENTION: Gram-Positive Microorganisms Genes
TITLE OF INVENTION: of Using It
FILE REFERENCE: GCX322-US
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Best Local Similarity
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SEQ ID NO 17
LENCTH: 23
TYPE: PRT
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APPLICANT: Broekhuizen, Cornelis P.
APPLICANT: Broekhuizen, Cornelis P.
TITLE OF INVENTION: No. 6410262el Secretion Factors for
TITLE OF INVENTION: Gram-Positive Microorganisms Genes
TITLE OF INVENTION: of Using It
FILE REFERENCE: GCX322-US
CURRENT PILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: US/08/981,527A
CURRENT FILING DATE: 1996-07-05
PRIOR FILING DATE: 1996-07-05
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -08-981-527A-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/147,936B
CURRENT FILING DATE: 2002-05-17
PRIOR APPLICATION NUMBER: US/08/981,527
PRIOR FILING DATE: 1997-12-16
PRIOR PILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: PCT/NL96/00278
PRIOR FILING DATE: 1996-07-05
NUMBER OF SEQ ID NOS: 20
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Pred. No. 3.2e+03;
3; Mismatches 0
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Pred. No. 3.2e+03;
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                                                            ; ORGANISM: Sus scrofa 
US-10-071-214-5
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APPLICANT: SOKOLOFF, ALEXANDER
TITLE OF INVENTION: PROCESS FOR UTILIZING EPITOPES RECOGNIZED BY NATURAL ANTIBODIES
FILE REFERENCE: MIRUS.014.02
CURRENT APPLICATION NUMBER: US/09/559,021
CURRENT FILING DATE: 2000-04-27
NUMBER OF SEQ ID NOS: 120
SOCTWARE: PATENTIN VEXESION 3.1
SEQ ID NO 3
LENGTH: 23
LENGTH: 23
                                                                                                                APPLICANT: HANSON, Lennart
APPLICANT: EGELRUD, TOXDJOYN
ITILE OF INVENTION: SCCE MODIFIED TRANSGENIC MAMMALS AND THEIR USE AS MODELS OF HUMAN
FILE REFERENCE: HANSSON-3A
CURRENT APPLICATION NUMBER: US/10/071,214
CURRENT FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: US 60/267,422
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: DK PA 2001 00218
PRIOR APPLICATION NUMBER: DK PA 2001 00218
PRIOR FILING DATE: 2001-02-09
NUMBER OF SEQ ID NOS: 50
SOPTWARE: Patentin version 3.1
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3, Application Patent No. 6872519
GENERAL INFORMATION:
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SEQ ID NO 60291
LENGTH: 23
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Best Local :
Matches
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Patent No. 7019194
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                                                                                        TYPE: PRT
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ORGANISM: Drosophila melanogaster
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Local Similarity nes 6; Conserv
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Pred. No. 3.2e+03
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| Db 1 AGIPNSKTNACNGDSG 16

Search completed: June 13, 2006, 02:10:59
Job time : 51 secs

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13, Appl 158, App 158, App 445, App 447, App 26, Appl 26, Appl 146, Appl 146, Appl 146, Appl 1519, Appl 35, Appl 1881, Appl 1886, Ap 1892, Appl 1892, Appl 25, Appl

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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US-10-862-195-357
US-10-484-568-63
US-10-504-905-69
US-10-502-46-23
US-11-069-42-91
US-10-105-232-375
US-10-105-232-375
US-10-105-232-375
US-10-107-4-410-91
US-10-860-050-375
US-10-107-174-410-91
US-10-860-050-375
US-10-107-174-795-17
US-10-9823-494-7
US-10-107-1214-5
US-10-107-
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17. Appli

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          RESULT 2
US-10-862-195-357
; Sequence 357, Application US/10862195
; Publication No. US20050164324A1
; GENERAL INFORMATION:
; APPLICANT: GYGI, STEVEN P.
; TITLE OF INVENTION: SYSTEMS, METHODS AND KIT.
FILE REFERENCE: 58890(70207)
; CURRENT APPLICATION NUMBER: US/10/862,195
; CURRENT FILING DATE: 2004-06-04
PRIOR APPLICATION NUMBER: 60/476,010
PRIOR FILING DATE: 2003-06-04
; PRIOR FILING DATE: 2003-06-04
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 357
; SEQ ID NO 357
; LENGTH: 23
TYPE: PRT
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Publication No. US20040014145A1

GENERAL INFORMATION:
APPLICANT: Dade Behring Marburg GmbH

ITITLE OF INVENTION: Carbohydrate deficient transferrin (CD-
ITITLE OF INVENTION: antibodies, their preparation and use
FILE REFERENCE: 2002/B001

CURRENT APPLICATION NUMBER: US/10/612,162

CURRENT FILING DATE: 2003-07-03

PRIOR APPLICATION NUMBER: 10230550.1

PRIOR APPLICATION NUMBER: 0311334.4

PRIOR FILING DATE: 2003-05-19

NUMBER OF SEQ ID NOS: 4

SOFTMARE: PatentIn Ver. 2.1
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; LENGTH: 23
; TYPE: PRT
; ORCANISM: Homo sapiens
US-10-612-162-2
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                              METHODS AND KITS FOR CHARACTERIZING PHOSPHOPROTEOMES
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US-10-109-171-146
US-10-083-259-158
US-10-231-417-445
US-10-231-417-445
US-10-109-274A-158
US-10-109-274A-158
US-10-32-876-146
US-11-36-186-146
US-11-111-953-519
US-09-971-980-35
US-10-372-786-1881
US-10-352-786-1886
US-10-352-786-1894
US-10-352-786-1894
US-10-352-786-1994
US-10-352-786-1994
US-10-352-786-1994
US-10-352-786-1994
US-10-377-714-55
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Minimum Maximum

DB seq

Total number

Scoring table:

Sequence: Title: Perfect score: ş

protein -

Run on:

Database

Result

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Score

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GENERAL INFORMATION:

APPLICANT: Garcia-Echeverria, Carlos
APPLICANT: Lewis, Claire
APPLICANT: Lewis, Claire
APPLICANT: Hobinson, Jeffrey
TITLE OF INVENTION: Peptide Screen
FILE REFERENCE: 4-32520A/32360/361
CURRENT APPLICATION NUMBER: US/10/484,568
CURRENT FILING DATE: 2004-01-22
NUMBER OF SEQ ID NOS: 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/187,130
PRIOR FILING DATE: 2000-03-06
PRIOR PRIOR APPLICATION NUMBER: US 09/800,770
PRIOR PILING DATE: 2001-03-06
PRIOR APPLICATION NUMBER: US 10/232,758
PRIOR FILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 168
SOFTWARE: PATENTING VERSION 3.2
SEQ ID NO 91
LENGTH: 23
TYPE: PRT
                                                         ; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-484-568-63
                                                                                                                                                                                                                                                                                                                                                                 US-10-484-568-63; Sequence 63, Application US/10484568; Publication No. US20040248194A1
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US-10-422-536-91
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Best Local Similarity
Gratches 6; Conserv
Query Match
Best Local Similarity
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Publication No. US20040014100A1
GENERAL INFORMATION:
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APPLICANT: Bennett, Mark
APPLICANT: Bennett, Mark
TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR INHIBITING
TITLE OF INVENTION: PROTEIN PROTEIN INTERACTION
FILE REFERENCE: A-71433-1/AMP/CYO
CURRENT APPLICATION NUMBER: US/10/422,536
CURRENT FILING DATE: 2003-04-23
CURRENT FILING DATE: 2003-04-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Kinsella, Todd APPLICANT: Lorens, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
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23.5%;
41.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23.5%;
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Pred. No. 5e+03;
6; Mismatches
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Pred. No. 1.7e+03;
Score 27; DB 5;
Pred. No. 5e+03;
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                   Length 23;
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APPLICANT: Schafer, Juergen
APPLICANT: Neumann, Thomas
TITLE OF INVENTION: Method For Characterising Analytes
FILE REFERENCE: 01073/0201939-US0
CURRENT APPLICATION NUMBER: US/10/510,246
CURRENT FILING DATE: 2004-10-01
PRIOR APPLICATION NUMBER: PCT/GB03/01485
PRIOR APPLICATION NUMBER: 02252440.9
PRIOR FILING DATE: 2002-04-04
PRIOR FILING DATE: 2002-04-04
NUMBER OF SEQ ID NOS: 58
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; LOCATION: (1)...(31)
; OTHER INFORMATION: anti-angiogenic peptide
US-10-504-905-69
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US-10-504-905-69
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SEQ ID NO 23
LENGTH: 23
TYPE: PRT
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Publication No. US20060040334A1
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SEQ ID NO 69
LENGIH: 23
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APPLICANT: Garcia-Escheverria, Carlos
APPLICANT: Lewis, Claire
APPLICANT: Robinson, Jeffrey
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Publication No
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PRIOR FILING DATE: 2002-07-23
NUMBER OF SEQ ID NOS: 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: PCT/EP03/01698
PRIOR FILING DATE: 2003-02-19
PRIOR APPLICATION NUMBER: GB 0203882.6
PRIOR FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: GB 0203883.4
PRIOR FILING DATE: 2002-02-19
                                                             SOFTWARE: PatentIn Ver.
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CURRENT FILING DATE: 2004-08-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Robinson, Jeffrey TITLE OF INVENTION: ORGANIC COMPC FILE REFERENCE: DC/4-32360A/32361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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5; Conserva
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                                                                                                                                                                                                                                                                                             Thompson, Andrew Hamon, Christian Kuhn, Karsten Meyer, Markus
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No. US20050118598A1
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Pred. No. 5e+03;
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GENERAL INFORMATION:

APPLICANT: Priest, Jeffrey W.

APPLICANT: Lammie, Patrick J.

APPLICANT: Kwon, James P.

APPLICANT: Kwon, James P.

APPLICANT: Mrowood, Michael J.

APPLICANT: Mross, Dolynn M.

TITLE OF INVENTION: RECOMBINANT CRYPTOSPORIDIUM PARVUM
TITLE OF INVENTION: ANTIGEN AND DETECTION OF ANTIBODIES '
FILE REFERENCE: 14114.0357U3

CURRENT APPLICATION NUMBER: US/09/734,417

CURRENT FILING DATE: 2000-12-11

PRIOR APPLICATION NUMBER: 60/174,054

PRIOR APPLICATION NUMBER: 60/174,054
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APPLICANT: KINSELLA, TODD M.
APPLICANT: MINSELLA, TODD M.
APPLICANT: BENNETT, MARK K.
TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR TITLE OF INVENTION: INHIBITING PROTEIN-PROTEIN INTERACTION FILE REFERENCE: RIGL-022CIP3
CURRENT APPLICATION NUMBER: US/11/069,642
CURRENT FILING DATE: 2005-02-28
PRIOR APPLICATION NUMBER: 10/232,758
PRIOR APPLICATION NUMBER: 10/232,758
PRIOR FILING DATE: 2002-08-30
PRIOR FILING DATE: 2003-04-23
PRIOR APPLICATION NUMBER: 10/422,536
PRIOR APPLICATION NUMBER: 09/800,770
PRIOR FILING DATE: 2001-03-06
NUMBER OF SEQ ID NOS: 168
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Best Local Similarity
6; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: PRT ; ORGANISM: Synechocystis PCC6803 US-11-069-642-91
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US-11-069-642-91
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SEQ ID NO 91
                                                                                                                                                                                                                                                                                                                                                                      Sequence 5, Application US/09734417 Patent No. US20020081312A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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Local Similarity 50.0%;
les 5; Conservative
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Pred. No. 5e+03;
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CURRENT APPLICATION NUMBER: US/10/105,232
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR FILING DATE: 2001-07-09
PRIOR PILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/146,755
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: 09/817,144
PRIOR APPLICATION NUMBER: 08/198,139
PRIOR FILING DATE: 1994-02-17
NUMBER OF SEQ ID NOS: 535
SOFTWARE: PACHENTIN 2.1
SEQ ID NO 375
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Best Local Similarity
watches 5; Conserva
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                                                                                                         Sequence 362, Application US/10189437 Publication No. US20030194414A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
FILE REFERENCE: 09425-46904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 23
                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 375, Application US/10105232 Publication No. US20030180328A1
APPLICANT: BOGOCH, SAMUEL
APPLICANT: BOGOCH, ELENORE S.
TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
FILE REFERENCE: 09425/46905
CURRENT APPLICATION NUMBER: US/10/189,437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 2:
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Plasmodium falciparum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Xaa = g or s
OTHER INFORMATION: Description of Artificial Sequence:/note
OTHER INFORMATION: synthetic construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: VARIANT LOCATION: 3
                                                                                                                                                                                                                                                                                                                                                     Local Similarity nes 5; Conserv
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| SLDGG 21
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Pred. No. 7.1e+03;
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Pred. No.
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5. 7.1e+03;
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Sequence 91, Application US/10174410
Publication No. US20030073134A1
GENERAL INFORMATION:
APPLICANT: Louie, Gordon V.
APPLICANT: Buchanan, Sean Grant
APPLICANT: Gajiwala, Ketan S.
APPLICANT: Gajiwala, Ketan S.
APPLICANT: Sauder, J. Michael
TITLE OF INVENTION: CRYSTALS AND STRUCTURES OF
TITLE OF INVENTION: 2C-METHLY-D-ERVTHRIFOL, 2,4-
FILE REFERENCE: 524982000300
CURRENT APPLICATION NUMBER: US/10/174,410
CURRENT APPLICATION NUMBER: US/10/174,410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/860,050
CURRENT FILING DATE: 2004-06-04
PRIOR APPLICATION NUMBER: 60/531,686
PRIOR FILING DATE: 2003-12-23
PRIOR APPLICATION NUMBER: 60/504,958
PRIOR FILING DATE: 2003-09-23
PRIOR FILING DATE: 2003-09-23
PRIOR FILING DATE: 2003-06-6
PRIOR FILING DATE: 2003-06
PRIOR FILING DATE: 2003-06-06
NUMBER OF SEQ ID NOS: 875
SOFTWARE: PACENTIN VERSION 3.2
TYPE: PRT
TYPE: PRT
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PRIOR FILING DATE: 2002-03-26
PRIOR FILING DATE: 2001-03-26
PRIOR FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: 60/303,396
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR APPLICATION NUMBER: 60/278,761
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 729
SOFTWARE: PATENTIN 2.1
SEQ ID NO 362
LENGTH: 23
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Best Local Similarity
"hes 5; Conserv?
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                                                                                                                                                                                                                                                  US-10-174-410-91
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Best Local S
Matches 5
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TITLE OF INVENTION: REPLIKIN PEPTIDES AND USES THEREOF
FILE REFERENCE: 09425/469071
                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 33.
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Pred. No. 7.1e+03;
4; Mismatches 6
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; LENGTH: 23
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-083-10
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Sequence 10, Application US/10400083
Publication No. US20040186056A1
GENERAL INFORMATION:
APPLICANT: Rucelahti, Erkki
APPLICANT: Porkka, Kimmo
APPLICANT: Corkka, Kimmo
APPLICANT: Christian, Sven
TITLE OF INVENTION: HMGNZ Peptides and Related Molecules
TITLE OF INVENTION: that Selectively Home to Tumor Blood Vessels and Tumor Cells
FILE REFERENCE: P.LJ 5662
FILE REFERENCE: P.LJ 5662
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ORGANISM: Hamster sp. US-09-823-494-7
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CURRENT FILING DATE: 2003-03-20
PRIOR APPLICATION NUMBER: US 10/116,866
PRIOR FILING DATE: 2002-04-05
NUMBER OF SEQ ID NOS: 20
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 10
                                              NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin Ver. 2
SEQ ID NO 7
LENGTH: 23
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NUMBER OF SEQ ID NOS: 336
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 91
LENGTH: 23
TYPE: PRT
ORGANISM: B. melitensis
                                                                                                                                                                                                                                                                                                                                              Sequence 7, Application US/09823494 Publication No. US20010041790A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 38.5%;
Matches 5; Conservative
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                                                                                                                                                                                                         APPLICANT: Chesebro, Bruce W
APPLICANT: Caughey, Byron W
APPLICANT: Chabry, Joelle
APPLICANT: Priola, Susette
TITLE OF INVENTION: Inhibitors of Formation of Protease Resistant Prion
TITLE OF INVENTION: Protein
FILE REFERENCE: 50121
                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/823,494
CURRENT FILING DATE: 2001-03-30
                                                                                                                                   PRIOR APPLICATION NUMBER: 09/128,450 PRIOR FILING DATE: 1998-08-03
                                      TYPE: PRT
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Pred. No.
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Pred. No. 1e+04;
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Sequence 5, Application US/10071214

Publication No. US20030066099A1

GENERAL INFORMATION:
APPLICANT: HANSSON, Lennart
APPLICANT: EGELRUD, Torbjorn

TITLE OF INVENTION: SCCE MODIFIED TRANSGENIC MAMMALS AND THEIR USE AS MODELS OF HUMAN
FILE REFERENCE: HANSSON-1A
CURRENT APPLICATION NUMBER: US/10/071,214
CURRENT FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: US 60/267,422
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: DK PA 2001 00218
PRIOR FILING DATE: 2001-02-09
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
LENGTH: 23
TYPE: PRT
CORANISM: Sus scrofa
US-10-071-214-5
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Search completed: June 13, 2006, 02:24:34 Job time: 180 secs
                                                                                                                                                                 Query Match 20.9%; Score 24; DB 4; Length 23; Best Local Similarity 37.5%; Pred. No. 1.5e+04; Matches 6; Conservative 3; Mismatches 7; Indels
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Result
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Maximum Match 100%
Listing first 45 s
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Maximum DB
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Sequence:
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    Pred. No. is th score greater than and is derived
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| Memc_Celerra_SIDS3/ptcdata/2/pubpaa/US06_NEW_PUB.pep:*
| Memc_Celerra_SIDS3/ptcdata/2/pubpaa/US07_NEW_PUB.pep:*
| Memc_Celerra_SIDS3/ptcdata/2/pubpaa/US08_NEW_PUB.pep:*
| Memc_Celerra_SIDS3/ptcdata/2/pubpaa/US10_NEW_PUB.pep:*
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US-10-263-057-13
US-10-787-734-136
US-10-787-734-139
US-11-252-276-145-17
US-10-787-734-199-21
US-11-12-986-457
US-09-731-899-21
US-11-169-140-26
US-11-169-140-26
US-11-155-429-31
US-11-155-429-31
US-11-251-465-51
US-11-334-622-21
US-11-038-753-20
US-11-251-465-72
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126, Appl
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128, Appl
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US-09-949-925-295 US-10-706-435A-12 US-10-706-435A-20 US-11-219-563-120 US-11-219-563-120 US-11-251-465-49 US-11-251-465-89 US-11-251-465-89 US-11-251-465-89 US-11-251-465-813 US-11-251-734-18 US-11-251-734-18 US-11-251-734-18 US-11-251-734-18 US-11-251-345-813 US-11-251-345-813 US-11-251-345-813 US-11-251-345-813 US-11-251-345-813 US-11-251-345-813 US-11-251-345-813 US-11-12-986-813 US-11-12-986-813 US-11-142-986-813 US-11-142-986-813 US-11-142-986-813 US-11-1488-015-15 US-10-488-015-15	6	σ	σ	7	7	7	7	7	7	7	7	6	7	7	7	σ	σ	σ	_	۱
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	2601, Ap	15, Appl	16, Appl	813, App	•	19, Appl		11, Appl	113, App		110, App	15, Appl	-		$\sim$		-	12, Appl	295, App	-

## ALIGNMENTS

US-11-251-465-55
US-11-251-465-55
; Sequence 55, Application US/11251465
; Publication No. US20060094061A1
; GENERAL INFORMATION:

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RESULT 2
US-11-263-057-13
US-11-263-057-13
Sequence 13, Application US/11263057
Publication No. US20060094103A1
GENERAL INFORMATION:
APPLICANT: Chou, Ku-Chen
APPLICANT: Howe, W. Jeffery
TITLE OF INVENTION: Modified BACE
FILE REFERENCE: MBHB 01-1766-A
CURRENT APPLICATION NUMBER: US/11/263,057
COURENT FILING DATE: 2005-10-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Tomme, Peter
APPLICANT: Klaassen, Hubertus
ITITLE OF INVENTION: Molecular Targets And Compounds, And
ITITLE OF INVENTION: Same, Useful In The Treatment Of J.
ITITLE OF INVENTION: Inflammatory Diseases
ITITLE OF INVENTION: UNMBER: US/11/251,465
CURRENT APPLICATION UNMBER: US/11/251,465
CURRENT FILING DATE: 2005-10-14
PRIOR APPLICATION UNMBER: 60/619,384
PRIOR FILING DATE: 2004-10-15
NUMBER OF SEQ ID NOS: 880
SOFTWARE: PatentIn version 3.3
SEQ ID NO 55
LENGTH: 23
TYPE: PRT
TYPE: PRT
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APPLICANT: Vandeghinste, Nick
PRIOR APPLICATION NUMBER: US/10/372,473
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OTHER INFORMATION: Protein domain
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Pred. No. 6e+02;
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US-10-787-734-11
; Sequence 11, Application US/10787734
; Publication No. US20060115489A1
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; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: Synthetic peptide substrate with a P33K-BACE cleavage site.
US-11-263-057-13
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CURRENT APPLICATION NUMBER: US/10/787,734
CURRENT FILING DATE: 2004-02-26
PRIOR APPLICATION NUMBER: PCT/US03/05196
PRIOR FILLNG DATE: 2003-02-21
PRIOR FILING DATE: 2002-10-21
PRIOR FILING DATE: 2002-10-21
PRIOR FILING DATE: 2002-02-21
PRIOR FILING DATE: 2002-02-21
PRIOR FILING DATE: 2002-02-21
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 10/080,299
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 09/930,915
PRIOR FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 140
NUMBER OF SEQ ID NOS: 140
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NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.2
SEQ ID NO 13
LENGTH: 23
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                                                                                                                                                                                   Sequence 136, Application No. US200 GENERAL INFORMATION:
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Best Local Similarity
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          APPLICANT: BIRKETT, ASHLEY J.
APPLICANT: FIERS, WALTER
TITLE OF INVENTION: INFLUENZA IMMUNOGEN AND VACCINE
FILE REFERENCE: 4564/91531
CURRENT APPLICATION NUMBER: US/10/787,734
CURRENT FILING DATE: 2004-02-26
PRIOR APPLICATION NUMBER: PCT/US03/05196
PRIOR FILING DATE: 2003-02-21
PRIOR FILING DATE: 2003-02-21
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Local Similarity 27.8%;
les 5; Conservation
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US 10/274,616
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Pred. No. 3.5e+03;
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Pred. No. 1.2e+03;
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PRIOR FILING DATE: 2002-10-21
PRIOR APPLICATION NUMBER: US 10/082,014
PRIOR ETLING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 10/080,299
PRIOR FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 09/930,915
PRIOR FILING DATE: 2001-08-15
PRIOR FILING DATE: 2001-08-15
PRIOR FILING DATE: 2001-08-15
PRIOR FILING DATE: 2001-08-15
SOFTWARE: PACENTIN VERSION 3.2
SEQ ID NO 136
LENGTH: 23
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Best Local Similarity
Marches 3; Conserve
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US-11-252-276-124
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US-10-787-734-139
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PRIOR FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: US 10/274,616
PRIOR FILING DATE: 2002-10-21
PRIOR PPLICATION NUMBER: US 10/082,014
PRIOR PILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 10/080,299
PRIOR PILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 09/930,915
PRIOR PILING DATE: 2001-08-15
PRIOR FILING DATE: 2001-08-15
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Best Local Similarity 60.0
"---ches 3; Conservative
                                                     Sequence 124, Application US/11252276
publication No. US20060094868A1
GENERAL INFORMATION:
APPLICANT: Giuliano, Kenneth A.
APPLICANT: Bright, Gary
APPLICANT: Olson, Keith
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APPLICANT: BIRKETT, ASHLEY J.
APPLICANT: FIERS, WALTER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 139,
APPLICANT: Burroughs-Tencza, Sarah
TITLE OF INVENTION: A System for Cell Based Screening
FILE REFERENCE: 97-022-K2-CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: INFLUENZA IMMUNOGEN AND VACCINE FILE REFERENCE: 4564/91531
CURRENT APPLICATION NUMBER: US/10/787,734
CURRENT FILING DATE: 2004-02-26
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Pred. No. 3.5e+0;
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Pred. No. 3.5e+03
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CURRENT FILING DATE: 2005-10-17

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Query Match
Best Local Similarity
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OTHER INFORMATION: Cytoplasm/cytoskeleton target seque
US-11-252-276-124
                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/423,875
PRIOR FILING DATE: 2002-11-05
PRIOR APPLICATION NUMBER: 60/423,832
PRIOR FILING DATE: 2002-11-05
PRIOR APPLICATION NUMBER: 60/423,932
PRIOR APPLICATION NUMBER: 60/423,757
PRIOR APPLICATION NUMBER: 60/423,757
PRIOR APPLICATION NUMBER: 60/423,757
PRIOR APPLICATION NUMBER: 60/423,758
PRIOR APPLICATION NUMBER: 60/423,758
PRIOR APPLICATION NUMBER: 60/423,375
PRIOR APPLICATION NUMBER: 60/424,367
PRIOR APPLICATION NUMBER: 60/424,376
PRIOR APPLICATION NUMBER: 60/424,376
PRIOR APPLICATION NUMBER: 60/424,376
PRIOR APPLICATION NUMBER: 60/424,370
PRIOR FILING DATE: 2002-11-06
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PRIOR FILING DATE: 2000-11-15
PRIOR APPLICATION NUMBER: 09/430,656
PRIOR FILING DATE: 1999-10-29
PRIOR APPLICATION NUMBER: 09/398,965
PRIOR FILING DATE: 1999-09-17
PRIOR APPLICATION NUMBER: 09/031,271
PRIOR APPLICATION NUMBER: 09/031,271
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 09/810,983
PRIOR FILING DATE: 1997-02-27
PRIOR APPLICATION NUMBER: 60/136,078
PRIOR APPLICATION NUMBER: 60/136,078
PRIOR APPLICATION NUMBER: 60/136,078
PRIOR FILING DATE: 1999-05-26
PRIOR FILING DATE: 1999-05-26
PRIOR FILING DATE: 1999-05-26
Remaining Prior Application data removed - See File Wrapper or PALM NUMBER OF SEQ ID NOS: 844
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 457
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LENGTH: 23
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APPLICANT: DHARAWSI, ALED
APPLICANT: VEDADI, WASOUD
TITLE OF INVENTION: ESSENTIAL NOVEL BACTERIAL POLYPEPTIDES
FILE REFERENCE: IPT-330.01
                                                                                                                   PRIOR FILING DATE: 60/424,362
PRIOR FILING DATE: 2002-11-06
PRIOR APPLICATION NUMBER: 60/424,373
PRIOR FILING DATE: 2002-11-06
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CURRENT FILING DATE: 2005-05-05
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SOFTWARE: PatentIn Ver. 2.
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Pred. No. 4.9e+03;
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Query Match
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Matches 3; Conserve
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                                                        ; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-490-949-36
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; Sequence 36, Application US/10490949
; Publication No. US20060093574A1
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                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/490,949
CURRENT FILING DATE: 2004-03-25
PRIOR APPLICATION NUMBER: PCT/US02/30578
PRIOR FILING DATE: 2002-09-25
PRIOR APPLICATION NUMBER: US 60/339,284
PRIOR APPLICATION NUMBER: US 60/325,499
PRIOR APPLICATION NUMBER: US 60/325,499
PRIOR FILING DATE: 2001-09-25
NUMBER OF SEQ ID NOS: 59
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SEQ ID NO 21
LENGTH: 23
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Best Local
Best Local Similarity
                  Query Match
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APPLICANT: ALBANI, Salvotore
APPLICANT: MARTINI, Alberto
TITLE OF INVENTION: METHODS FOR EPITOPE-SPECIFIC AND CYTOKINE/ANTICYTOKINE
TITLE OF INVENTION: COMBINATION IMMUNOTHERAPIES FOR MODULATION OF PATHOGEN
TITLE OF INVENTION: IMMUNE RESPONSES IN IMMUNE MEDIATED DISEASES
FILE REFERENCE: UCSD1450-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/731,899
CURRENT FILING DATE: 2000-12-08
PRIOR APPLICATION NUMBER: 60/169,687
PRIOR FILING DATE: 1999-12-08
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Pred. No.
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Pred. No. 4.9e+03;
3; Mismatches 7;
DB 6; L
6.9e+03;
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Indels

0;

Gaps

0

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APPLICANT: CHAPIN, STEVEN
APPLICANT: CHAPIN, STEVEN
TITLE OF INVENTION: METHODS FOR THE TRANSPORT OF BIOLOGICALLY ACTIVE AGENTS ACROSS CE
TITLE OF INVENTION: BARRIERS
FILE REFERENCE: 11474-037-999
CURRENT APPLICATION NUMBER: US/11/169,140
CURRENT APPLICATION NUMBER: US 60/267,601
PRIOR APPLICATION NUMBER: US 60/267,601
PRIOR APPLICATION NUMBER: US 60/248,819
PRIOR APPLICATION NUMBER: US 60/248,819
PRIOR FILING DATE: 2000-11-14
PRIOR APPLICATION NUMBER: US 60/248,478
PRIOR APPLICATION NUMBER: US 60/248,478
PRIOR APPLICATION NUMBER: US 60/237,929
PRIOR APPLICATION NUMBER: US 60/237,929
PRIOR APPLICATION NUMBER: US 60/237,929
PRIOR APPLICATION NUMBER: 05/949,039
PRIOR FILING DATE: 2001-09-06
PRIOR APPLICATION NUMBER: 09/949,039
PRIOR FILING DATE: 2001-09-06
PRIOR APPLICATION NUMBER: 09/949,748
PRIOR APPLICATION NUMBER: 09/969,748
PRIOR FILING DATE: 2001-10-02
NUMBER OF SEG ID NOS: 143
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SOFTWARE: Patentin version 3.3
SEQ ID NO 53
LENGTH: 23
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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US-11-169-140-26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Protein domain US-11-251-465-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 53, Application US/11251465
Publication No. US20060094061A1
GENERAL INFORMATION:
APPLICANT: Brys, Reginald
APPLICANT: Vandeghinste, Nick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 26, Application US/111
Publication No. US20060099150A1
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Tomme, Peter
APPLICANT: Klaassen, Hubertus
TITLE OF INVENTION: Molecular Targets And Compounds, And Methods To Identify
TITLE OF INVENTION: Same, Useful In The Treatment Of Joint Degenerative And
TITLE OF INVENTION: Inflammatory Diseases
FILE REFERENCE: p30,172-A USA
CURRENT APPLICATION NUMBER: US/11/251,465
CURRENT FILING DATE: 2005-10-14
PRIOR FILING DATE: 2005-10-15
PRIOR FILING DATE: 2006-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: ARIZEKE PHARMACEUTICALS, INC
APPLICANT: HOUSTON, Lou, L.
APPLICANT: SHERIDAN, Philip, J.
APPLICANT: HAWLEY, Stephen
APPLICANT: GLYNN, Jacqueline, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        v match 14.8%;
Local Similarity 35.7%;
les 5; Conservative
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Pred. No. 6.9e+03;
2; Mismatches 7
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                                                                                                                                                                                                           US-10-515-429-30
                                                                                                                                                                                                                                     RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-949-925-291
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/232,150
PRIOR FILLING DATE: 2000-12-09
PRIOR PELLOATION NUMBER: PCT/US99/01621
PRIOR FILLING DATE: 1999-01-27
PRIOR APPLICATION NUMBER: US 60/073,160
PRIOR FILLING DATE: 1998-01-30
PRIOR APPLICATION NUMBER: US 60/073,159
PRIOR APPLICATION NUMBER: US 60/073,159
PRIOR APPLICATION NUMBER: US 60/073,159
PRIOR APPLICATION NUMBER: US 60/073,165
                                                                                                                                      Sequence 30, Application US/10515429 Publication No. US20060105387A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 298
SOFTWARE: PatentIn Ver. 2
SEQ ID NO 291
LENGTH: 23
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Best Local
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LENGTH: 23
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                            APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1998-01-30 PRIOR APPLICATION NUMBER: US 60/073,170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/949,925
CURRENT FILING DATE: 2001-09-12
         CURRENT APPLICATION NUMBER: US/10/515,429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/073,161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/073,167
PRIOR FILING DATE: 1998-01-30
PRIOR APPLICATION NUMBER: US 60/073,162
PRIOR FILING DATE: 1998-01-30
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PRIOR FILING DATE: 1998-01-30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: 67 Human secreted proteins
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                      13.9%;
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Pred. No. 6.9e+03;
1; Mismatches 1
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Pred. No. 9.7e+03;
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Indels

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Gaps

CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779

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APPLICANT: Bander, Neil
APPLICANT: Bander, Neil
TITLE OF INVENTION: MODIFIED ANTIBODIES TO PROSTATE-SPECIFIC
TITLE OF INVENTION: MEMBRANE ANTIBODIES
TO PROSTATE-SPECIFIC
TITLE OF INVENTION: MEMBRANE ANTIBODIES
TO REFERENCE: 13651.001 (BZL-001)
CURRENT APPLICATION NUMBER: US/11/219,563
CURRENT FILING DATE: 2005-09-02
PRIOR APPLICATION NUMBER: PCT/US04/06586
PRIOR APPLICATION NUMBER: US 10/379,838
PRIOR APPLICATION NUMBER: US 10/379,838
PRIOR APPLICATION NUMBER: 10/449,379
PRIOR FILING DATE: 2003-05-30
NUMBER OF SEQ ID NOS: 144
SOFTMARE: FASUSEQ for Windows Version 4.0
SEQ ID NO 41
LENGTH: 23
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PRIOR APPLICATION NUMBER: US 60/406,977

PRIOR FILING DATE: 2002-08-30

PRIOR APPLICATION NUMBER: US 10/384,060

PRIOR APPLICATION NUMBER: US 60/485,404

PRIOR FILING DATE: 2003-03-10

PRIOR PLICATION NUMBER: US 60/485,404

PRIOR FILING DATE: 2003-07-09

NUMBER OF SEQ ID NOS: 75

SOPTWARE: PATENTIFICATION Ver. 2.1

SEQ ID NO 30

LENGTH: 23

TYPE: PRT
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US-11-219-563-41
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US-11-259-950-21
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                                                                 Sequence 21, Application US/11259950 Publication No. US20060088524A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 13.9%;
Best Local Similarity 20.0%;
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 28.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 41, Application US/11219563
Publication No. US20060088539A1
                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Morrissey, James
APPLICANT: Pureza, Vincent
APPLICANT: Sligar, Stephen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: EPO mimetic OTHER INFORMATION: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                              4; Conservative
                                                                                                                                                                                                                        VMTQFPKSMSASAG 16
Pureza, Vincent
Sligar, Stephen G.
                                                                                                                                                                                                                                                                                                            Score 16; DB 7;
Pred. No. 9.7e+03;
2; Mismatches E
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Pred. No. 9.7e+03;
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                                                                                                                                                                                                                                                                                                                                                      Length 23;
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CURRENT APPLICATION NUMBER: US/11/259,950
CURRENT FILING DATE: 2005-10-27
PRIOR APPLICATION NUMBER: US 60/622,737
PRIOR FILING DATE: 2004-10-27
PRIOR PLING DATE: 2004-10-27
PRIOR APPLICATION NUMBER: US 60/536,281
PRIOR APPLICATION NUMBER: US 10/465,789
PRIOR APPLICATION NUMBER: US 10/465,789
PRIOR FILING DATE: 2003-06-18
PRIOR FILING DATE: 2003-06-18
PRIOR APPLICATION NUMBER: US 09/990,087
PRIOR FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: US 60/252,233
PRIOR APPLICATION NUMBER: US 11/033,489
PRIOR APPLICATION NUMBER: US 11/033,489
PRIOR APPLICATION NUMBER: US 11/033,489
PRIOR FILING DATE: 2005-01-11
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                                                                                                                                                                                    ; FEATURE:
; OTHER INFORMATION: HiSTEV sequence
US-11-259-950-21
                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 23
                                                                                       Query Match
Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Tissue Factor Compositions and Methods FILE REFERENCE: 46-04
                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial
15
  TTEN 18
                                           TTED 4
                                                                                          13.9%;
ilarity 75.0%;
Conservative
                                                                                          Score 16; DB 7; Pred. No. 9.7e+03; Mismatches 0
                                                                                                                                      Length 23;
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Search completed: June 13, 2006, 02:24:56 Job time: 18 secs

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Result
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Maximum DB
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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## ALIGNMENTS

RESULT 1 ADG46077 EP1378521-A1. antibody; carbohydrate-deficient transferrin; CDT; non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human. Human CDT peptide fragment 25-MAR-2004 (first entry) ADG46077; ADG46077 standard; peptide; 05-JUL-2002; 2002DE-01030550. 19-MAY-2003; 2003EP-00011334. 07-JAN-2004. Homo sapiens. (DADE-) DADE BEHRING MARBURG GMBH. #3 15 A

Althaus H;

WPI; 2004-073743/08.

New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating need for immobilization.

Claim 4; SEQ ID NO 3; 21pp; German.

This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences VVARSMGGKEDLIWELL, TTEDSIAKIMNGEADAMSLDGGF, SKLSMGSGLNLSEPN and YEKYLGBEYVKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for

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This invention describes a novel antibody that, in aqueous solution, CC binds selectively to carbohydrate-deficient transferrin (CDT) without chaving to bind CDT to a solid phase. The invention also describes an CC antibody that binds selectively to CDT at regions containing the CC sequences VVARSMGGKEDLINELL, TTEDSIAKINMCEADAWSLDGGF, SKLSMGSGLINLSERN and CC YEKYLGEEYVKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT CC using the antibodies of the invention. The antibodies of the invention CC are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The CC antibodies are obtained by immunisation with non-glycosylated for CC transferrin, or a fragment, then generation of hybridomas by standard CC fusion of spleen and myeloma cells. Hybridomas are then selected for production of spleen and myeloma cells. Hybridomas are then selected for CC phase. The antibodies that specifically bind CDT from the aqueous CC phase. The antibodies are useful for diagnosis of alcoholism, CDT, which CC alcoholics. The antibodies allow direct detection of CDT in solution, CC alcoholics. The antibodies and/or Assam 611, is present only in CC alcoholics. The antibodies and of crompticed of the solution, and the need for immobilising it on a solid phase (as required companions) and the need for immobilising it on a solid phase (as required companions) and the processor would be a companion of the processor would be a companion of the processor would be a companion of the processor would be companioned to the solid phase (as required companions). Abg46075-Abg46094 represent CDT peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diagnosis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antibody specific for carbohydrate-deficient transferrin, useful for
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non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human.
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diagnostic markers for a disease, a composition comprising peptides containing the glycosylation sites (AEESS97-AEE39378, where the peptides each correspond to peptide fragments derived by cleavage of polypeptides using the same cleavage reagent) and a kit comprising peptides containing the glycosylation sites (AEESS97-AEE39378). The methods are useful for identifying glycopolypeptides in a serum or plasma sample. The methods can be used for blood serum profiling for the detection of prognostic and diagnostic protein markers. It can also be used to identify and/or validate drug targets and to evaluate drug efficacy, drug dosing, and/or drug toxicity. The methods can also be used for the detection of changes in the state of glycosylation of protein based on the concurrent peptication of protein abundance measurement of protein glycosylation of the same sample. The method allows fast throughput and simplicity. It can be readily adapted for high throughput analysis of samples, which can be particularly advantageous for the analysis of samples, which can be particularly advantageous for the analysis of clinical specimens. The method can also be automated to facilitate the processing of multiple method can also be automated to facilitate the processing of multiple
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Best Local S
Matches 13
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cytostatic; diabetes; antidiabetic; inflammation; antiinflammatory;
rheumatoid arthritis; antiarthritic; antirheumatic; psychiatric disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying glycopolypeptides in a serum or released sample glycopeptide fragments that
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0.00014;
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RESULT 4
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The invention relates to identifying glycopolypeptides in a serum or CC plasma sample comprising immobilizing derivatized sample glycopeptide (CC glycopolypeptides to a solid support, releasing the sample glycopeptide (CC glycopeptide fragments standard peptides, and identifying released sample CC glycopeptide fragments that correspond to standard peptides added by mass cCC glycopeptide fragments that correspond to standard peptides added by mass cCC glycopeptide fragments that correspond to standard peptides added by mass cCC containing the glycosylation sites (AEE35897-AEE39178, where the peptides cCC containing the glycosylation sites (AEE35897-AEE39178, where the peptides cCC can be used for blood serum profiling for the detection of polypeptides (AEE35897-AEE39178). The methods are useful for cidentifying glycopolypeptides in a serum or plasma sample. The methods can also be used for the detection of changes containing the glycopolypeptides in a serum or plasma sample glycopolypeptides in a serum or plasma sample and/or containing the glycopolypeptides in a serum or plasma sample containing cCC diagnostic protein markers. It can also be used to identify and/or changes the state of glycopylation of proteins based on the concurrent cCC application of protein abundance measurement of protein glycosylation on the same sample. The method allows fast throughput and simplicity. It can be readily adapted for high throughput analysis of samples, which can be
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peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 3276; 193pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying glycopolypeptides in a serum or plasma sample, by identifying released sample glycopeptide fragments that correspond to standard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Aebersold RH,
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85.7%;
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Pred. No. 0.0027;
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RESULT 5
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Best Local
transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region. The invention may be useful for the development of compounds with cytostatic, antibacterial, virucide, antiparasitic, immunosuppressive or antiarthritic activity. In addition, the sequences disclosed may be useful for gene therapy. The fusion protein is useful for preparing a composition for treating a disease or disease symptom in a patient for example septic shock, endotoxic shock, cachexia syndromes associated with bacterial, viral or parasitic infections, neoplasm, autoimmune disease, arthritis or adverse effects associated with treatment for preventing graft rejection. The present sequence is that of a domain of the human transferrin protein which was used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New fusion protein comprising a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region, useful for preparing a composition for treating e.g., septic shock, neoplasm or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-AUG-2001; 2001US-0315745F.
30-NOV-2001; 2001US-0334059F.
30-AUG-2002; 2002US-0406977F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiparasitic; immunosuppressive; antiarthritic; gene therapy;
septic shock; endotoxic shock; cachexia syndrome; bacterial infecti
viral infection; parasitic infection; neoplasm; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             particularly advantageous for the analysis of clinical specimens. The method can also be automated to facilitate the processing of multiple samples. The present sequence is a human glycopeptide that does not contain an N-linked glycosylation site, suitable for use as a reference
                                                                                                                                                                                                                                                                                                                                                                                                                           Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      autoimmune disease.
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                                                                                                                                                                                                                                                                                                                                                                 This invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-MAR-2003; 2003US-00384060.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fusion
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fusion protein; transferrin protein; glycosylation;
antibody variable region; cytostatic; antibacterial; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human transferrin protein domain SeqID36.
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                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Prior CP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rejection; human.
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                                                                                                                                                                                                                                                                                                   es to a novel fusion protein which comprises exhibiting reduced glycosylation fused to at le region. The invention may be useful for the
                                                                                                                                                                                                                                                                                                                                                                                                                           36;
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85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15
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Pred. No. 0.0027;
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Matches 12
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Matches 12
                                                                                                                                                                                     The invention comprises a fusion protein that contains a modified transferrin (Tf) protein fused to a therapeutic protein/peptide (e.g. beta-interferon - IFN, gluased to a therapeutic protein/peptide if mimetic peptide - EMPI, T-20 and soluble toxin receptor). The fusion protein of the invention is useful for epitope tagging. The present an acid sequence represents a fragment of the human Tf protein.
  ADY54154;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fusion protein; transferrin; Tf; beta-interferon; beta-IFN; glucagons-like peptide; GLP-1; erythropoietin mimetic peptide; T-20; soluble toxin receptor; epitope tagging; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 42
                       ADY54154 standard; peptide; 42 AA
                                                                                                                                                                  Sequence 42
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a
                                                                                                                                                                                                                                                                                                     New fusion protein comprising a modified transferrin (Tf) protein fused
                                                                                                                                                                                                                                                                                                                                                                                          30-AUG-2001; 2001US-0315745P.
30-NOV-2001; 2001US-0334059P.
30-AUG-2002; 2002US-00231494.
30-AUG-2002; 2002US-0406977P.
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                                                                                                                                                                                                                                                                                         therapeutic protein
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                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                Sadeghi H,
                                                                                                                                   81.1%;
85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein fragment #3
                                                                                                                                                                                                                                                                    70pp; English.
                                                                                                                                                                                                                                                                                          or peptide, useful
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                                                                                                                       Score 60; DB 8; Pred. No. 0.0042; 0; Mismatches
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Pred. No. 0.0042;
0; Mismatches
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                                                                                                                                                                                                                                                                                          for epitope tagging
                                                                                                                                            Length 42;
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nootropic; hepatotropic; virucide; antiinflammatory; immunosuppressive; antiallergic; antimicrobial; neuroleptic; gynecological; anorectic; antiarteriosclerotic; gastrointestinal-Gen; endocrine-Gen; neoplasm; hematological disease; transferrin; erythropoletin peptide mimetic; EPM; EPO mimetic peptide-1; EMP-1; multiple sclerosis; brain tumor; cancer; hepatitis; anemia; pregnancy; menetrual disorder; rheumatoid arthritis; AIDS; viral disease; metabolic disease; autoimmune disease; inflammatory disease; metabolic disease; autoimmune disease; inflammatory disease; genetic disease; neurodegenerative disease; hematopoietic cell disorder; endocrine disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gastrointestinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Amino acid sequence of Cl subdomain of human transferrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-MAY-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anti-HIV; hypotensive;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disease; hypertension; arterial sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cardiovascular-Gen.;
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WO2005021579-A2

10-MAR-2005

30-AUG-2004; 2004WO-US027949

28-AUG-2003; 2003WO-US026818. 10-MAR-2004; 2004US-0551552P.

(BIOR-) BIOREXIS PHARM CORP

Sadeghi H, Turner AJ

WPI; 2005-214540/22

Novel erythropoietin (EPO) peptide mimetic, having first modification of cysteine residue of EPO mimetic peptides (EMP)-1, to reduces disulfide bond formation, and second modification such that peptide exhibits EMP-1

Example 1; SEQ ID NO 8; 158pp; English

CC (EPM), comprising a modification of at least one cysteine residue of EPO CC mimetic peptide (EMP)-1 that substantially reduces disulfide bond CC formation, and a second modification such that the peptide exhibits EMP-1 CC activity. The first modification comprises the deletion or substitution CC of at least one cysteine residue in EMP-1, and the second modification of a linker group that is covalently bonded to the comprises the addition of a linker group that is covalently bonded to the CC cherminal amino acid or N-terminal amino acid of EMP-1. EPM peptides of CC the invention are useful for treating or preventing diseases, such as CC multiple sclerosis, brain tumor, skin cancer, hepatitis B, hepatitis C, CC anemia, beta-thalassemia, pregnancy or menstrual disease, bepatitis C, CC autoimmune disease, viral disease, metabolic disease, obesity, CC autoimmune disease, inflammatory disease, metabolic disease, obesity, CC disease, systemic microbial infection, cardiovascular disease, psychosis, genetic diseases, neurodegenerative diseases, disorders of hematopoietic cells, diseases, neurodegenerative diseases disorders of hematopoietic cells, diseases, diabetes, asthma, or HIV infections, CA light and transferrin. A fusion protein, with increased half life, comprising the comprising peptide and modified transferrin is used in the course of the The specification describes an erythropoietin (EPO) peptide mimetic (EPM), comprising a modification of at least one cysteine residue of invention.

Sequence 42 A

Query Match Best Local ( Matches 12; Similarity Conservative 81.1%; Score 60; DB Pred. No. 0.0000; Mismatches 0042; Length 42 Indels 0 Gaps

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Matches
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                                                                                                                                                                                                                                                hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs to refere transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities
                                                                                                                                                                                                                                                                                                                                                                                                              Transferrin polypeptides and polynucleotides are used to prevent, tre or ameliorate a medical condition in e.g. humans, mice, rabbits, goat horses, cate, dogs, chickens or sheep. Disorders which are diagnosed treated include autoimmune diseases e.g. rheumatoid arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hyperproliferative disorder; neoplasm; cardiovascular disorder; cardiac arrest; cerebrovascular disorder; cerebral ischemia; angiogenesis; nervous system disorder; Alzheimer's disease; infection; ocular disorder; corneal infection; wound healing;
              ABR82321 standard; protein; 575 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated nucleic acid molecule encoding a human tranferrin protein is used in preventing, treating or ameliorating a medical condition.
                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents human transferrin polypeptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     epithelial cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; transferrin; autoimmune disease; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amino acid sequence of a human transferrin
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                                                                                             KLCMGSGLNLCEPN 192
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 286-287; 290pp; English.
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                                                                                                                                                          Conservative
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                                                                                                                                                                      81.1%;
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Pred. No. 0.042;
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81.1%; 85.7%;

Score 60; [ Pred. No. 0. Mismatches

DB DB 6;

Length 575; Indels

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Query Match
Best Local Similarity
""" hes 12; Conserv?
                                                                                                    CC polynucleotides. The human MERR polypeptides, polynucleotides and CC modulators are useful for diagnosing, treating or preventing disorders associated with aberrant expression of MERR, particularly cell associated with aberrant expression of MERR, particularly cell (CC proliferative disorders (e.g. arteriosolerosis, atherosolerosis, cell richosis, hepatitis, paroxysmal nocturnal hemoglobinuria, polycythemia (crirhosis, hepatitis, paroxysmal nocturnal hemoglobinuria, polycythemia (crirhosis, bepatitis, paroxysmal nocturnal hemoglobinuria, polycythemia (crirhosis, primary thromobocytopenia or cancer), developmental cupical disorders (e.g. Alzheimer's disease, Parkinson's disease or (e.g. lippsy), autoimmune/inflammatory disorders (e.g. AIDS, allergies, casthma, autoimmune/inflammatory disorders (e.g. AIDS, allergies, casthma, autoimmune/inflammatory disorders (e.g. AIDS, allergies, cotabbetes mellitus, glomerulonephritis, Goodpasture's syndrome, gout, (crirhosis, disease, Hashimoto's thyroiditis, irritable bowel syndrome, (crirital, cotabetes, crirhosis, osteoparthritis, irritable bowel syndrome, uveitis), or viral, bateterial, fungal, parasitic, protozoan or helminthic infections. The colonynucleotides encoding MEPR are useful for creating transgenic animals (crirhosis) of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEPR; metalloprotein; anti-HIV; antiallergic; antiinflammatory; human; antianemic; antiparkinsonian; nootropic; anticonvulsant; cytostatic; antiarteriosclerotic; antiasthmatic; immunosuppressive; antithyroid; hepatotropic; dermatological; antidiabetic; nephrotropic; antigout; thyromimetic; neuroprotective; osteopathic; antiarthritic; uropathic; antiparasitic; antihelmintic; antipsoriatic; ophthalmological; virucide; antiheumatic; haemostatic; antibacterial; protozoacide; fungicide;
                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New human metalloproteins and polynucleotides, useful for diagnosing, treating or preventing autoimmune or inflammatory disorders (e.g. AIDS, allergy or anemia), multiple sclerosis, osteoarthritis, cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-JAN-2002; 2002US-0348769P.
18-JAN-2002; 2002US-0350701P.
19-MAR-2002; 2002US-0366059P.
10-MAY-2002; 2002US-0379907P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to novel human metalloproteins (MEPR) and encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page 146-148; 153pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hepatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-598523/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kable AE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JAN-2003; 2003WO-US001485
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human metalloprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-NOV-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         therapy; transgenic.
                                                                                                    575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ВМ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Griffin JA,
M, Chien D,
                                                                                                    A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INC.
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Jin P, Chawla NK, Yue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Richardson
le H, Khare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ,
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RESULT 10
REM83782
ID ABM83782
ID ABM833
XX ABM83
XX ABM83
XX ABM83
XX ABM83
XX Gene
XX Gene
XX Gene
XX Gene
XX Gene
XX Homo
XX Homo
XX 12-SE
XX 12-SE
XX 12-SE
XX I2-SE
XX I2
음 성
                                                                                                                                                                                                                                                                                                            The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A CC polynucleotide of the invention may have a use in gene therapy. The human CC diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be CC used to diagnose a particular condition, disease or disorder associated CC with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorders, developmental disorder, endocrine CC disorder, neurological disorders, gastrointestinal disorders, or CC infections caused by virus, bacteria, fungi or parasite. The dithp CC molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline CC gene therapy. The present sequence represents a dithp protein of the CC invention. Note: The sequence represents a dithp protein of the printed specification, but was obtained in electronic format directly cc from WIPO at www.wipo.int/pct/en/sequences/listing.htm
                                                                                                                                Best Local
Matches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mooney EM,
Stevens KA,
Peralta CH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or
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                                                                                                                                                                                                                                                             Sequence 609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in gene mapping.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-SEP-2002; 2002US-0410259P.
12-SEP-2002; 2002US-0410260P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO2004023973-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (INCY-) INCYTE CORP.
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DB; ACN42434.
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S, Shi X,
                                                                                                                                                                 Similarity
                                                                KLSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page; 190pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , Wright RJ, Bruns CM, Marjanovic MM, Shen F;
e TA, Suchoroleki MT, Altus CM, Pitts SJ, Elder LV;
belegeane AM, Panesar IS, Banville SC, Reddy TP;
blanchard JL, Panzer SR, Wang X, Au AP, Gerstin
Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton
ng M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gi
Shi X, Suarez CJ;
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                                                                                                                                                                 81.1%;
85.7%;
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                                                                                                                                Score 60; DB 8;
Pred. No. 0.084;
0; Mismatches
                                                                                                                                                                                            Length 609;
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444 KLCMGSGLNLCEPN 457

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RESULT 11
ABM83781
ID ABM833X
XX ABM83
XX ABM83
XX ABM83
XX Human
XX Gene
XX Gene
XX Gene
XX Homo
XX Homo
XX Homo
XX 12-SE
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XX (INCY
XX Schmi
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Best Local S
Matches 12
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Stevens KA,
Peralta CH,
                                                                                                                                                                                                                                                 disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at www.wipo.int/pct/en/sequences/listing.htm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, endocrine autoimmune/inflammatory disorder, developmental disorder, endocrine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or in gene mapping.
                                                                                                                                                                                          Sequence 627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 27; Page; 190pp; English.
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12-SEP-2002; 2002US-0410260P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (INCY-) INCYTE CORP.
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      N
                                                                                                      Similarity
      KLSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Delegeane AM, Panesar IS, Banville SC, Reddy TP; Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin, Anderson SB, Rioux P, Shen EJ, Wh. Stuve LL; Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ng M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gi Shi X, Suarez CJ;
                                                                      Conservative
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Suchorolski MT, Altus CM, Pitts SJ, Elder L'
Suchorolski MT, Altus CM, Pitts SJ, Reddy TS.
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                                                                                                   Score 60; DB 8;
Pred. No. 0.087;
                                                                   Mismatches
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                                                                                                                                Length 627
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c.T. Elder LV;
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JL, Gietzen D;
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Best Local S
Matches 12
                                                                                                                                                                                used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorder, developmental disorders, endocrine disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at www.wipo.int/pct/en/sequences/listing.htm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Schmidt JP, Wright RJ, Bruns CM, Marjanovic MM, Shen F;
Harthshorne TA, Suchorolski MT, Altus CM, Pitts ZJ, Elder LV;
Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP;
Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin EH;
Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES;
Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gietzen
Patury S, Shi X, Suarez CJ;
                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to novel diagnostic and therapeutic polynucleotides lected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosting a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or in gene mapping.
                                                                                                                                               Sequence 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-SEP-2002; 2002US-0410259P.
12-SEP-2002; 2002US-0410260P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene therapy; human diagnostic and therapeutic polynucleotide; dithp
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DB; ACN42431.
                                                                       12; Conserv
                                  2 KLSMGSGLNLSEPN
KLCMGSGLNLCEPN 476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page; 190pp; English.
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                                                                                       81.1%;
85.7%;
                                    15
                                                                         <u>,,</u>
                                                                                         Score 60; DB 8;
Pred. No. 0.087;
                                                                       Mismatches
                                                                         2; Indels
                                                                                                            Length 628;
                                                                         0
                                                                         Gaps
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RESULT 13

ABM83778 ID ABM8 XX

ABM83778 standard; protein; 643

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RESULT 14

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ADTO8174

ADTO8174

ADTO8174

AC ADTO
XX ADTO
DT 30-1

XX MBB;
XXW MBB;
XXW ANT:
XXX Homm
XXX WO2(
XXX 17-1

XXX 17-1

XXX New
PT ANT
DR WPI
DR WPI
DR WPI
DR WPI
DR WPI
CC FEC
CC FEC
CC FEC
CC Seq
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                                                                                                                                                                                                                                                                                                                 The invention relates to novel human metal binding proteins (MBP) and encoding polynucleotides. The MBPs can be expressed by standard crecombinant methodology. The polypeptides and polynucleotides are useful in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of MBP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. AIDS, callergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) conjectures, or infections. These are also useful in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of MBP. The MBP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds that specifically bind to or modulate the activity of the polypeptide. An microarray comprising different nucleotide molecules affixed at distinct physical locations on a solid substrate, where at least one nucleotide sequence specifically hybridizable with at least 30 contiguous nucleotides of the polypeptide is useful in monitoring or measuring protein-comprises a first oligonucleotide or polynucleotide sequence protein interactions, drug-target interactions, and gene expression contiguous nucleotides of the protein sequence represents a human MBP.
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                                                                                                                                   Matches
                                                                                                                                                                                               Query Match
                                                                                                                                                                   Best Local
                                                                                                                                                                                                                                                                   Sequence 635 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human metal binding proteins (MBP), useful for diagnosing, treating and preventing diseases or conditions associated with the aberrant MBP expression e.g. cancer, AIDS, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MBP; metal binding protein; cytostatic; antiarteriosclerotic;
anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV;
antiallergic; antiinflammatory; thyromimetic; transgenic; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 3; 161pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jiang X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-MAR-2003; 2003US-0457538P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-OCT-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (INCY-) INCYTE CORP
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452
                                                                                                                            l Similarity
12; Conserv
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                                                               KLSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jackson AA,
                                                                                                                                   Conservative
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                                                                                                                                                                   81.1%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hafalia AJA,
                                                                                                                                   0
                                                                                                                                   Score 60; DB 8; Pred. No. 0.088; 0; Mismatches
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                                                                                                                                   Gaps
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ABM83783
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Best Local S
Matches 12
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                   ABM83783
                                                    ABM83783 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 27; Page; 190pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or
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12-SEP-2002; 2002US-0410260P.
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                                                                                                                                                                                                                                                                                              Sequence 643
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene mapping.
                                                                                                                                                 478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2004-329368/30.
                                                                                                                                                                                   N
                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                   KLSMGSGLNLSEPN 15
                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                          81.1%;
                                                      645 AA
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                                                                                                                                                                                                                                        Score 60; DB 8
Pred. No. 0.09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and therapeutic polynucleotide; dithp
                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                         Length 643;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kirton ES;
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                                                                                                                                                                    The invention relates to novel diagnostic and therapeutic polynucleotides celected from one of the 2722 sequences defined in the specification. A composition of the invention may have a use in gene therapy. The human composition diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, and corine commune/inflammatory disorders, gastrointestinal disorder, endocrine compositions caused by virus, bacteria, fungi or parasite. The dispersion or infections caused by virus, bacteria, fungi or parasite. The diship composition will be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this parent is not represented in the printed specification, but was obtained in electronic format directly composition of the printed specification, but was obtained in electronic format directly composition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Harths...
Mooney EM, L.
Stevens KA, Blanca...
Stevens KA, Blanca...
Peralta CH, Anderso
Parace RE, Spiro P/
Parace RE, Spiro P/
Promp M, Pr
                                                                                     Best
                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lagace RE, Spiro
Xu Y, Kwong M, Po
                                                                                                                                        Sequence 645 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 27; Page; 190pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-SEP-2002; 2002US-0410259P 12-SEP-2002; 2002US-0410260P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human diagnostic and therapeutic pprotein SEQ ID NO:4032
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                                                                                       Local
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462
                                   N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACN42435
                                                                                     Similarity
KLCMGSGLNLCEPN
                                 KLSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , wright RJ, Bruns CM, Marjanovic MM, Shen F; e TA, Suchoxolski MT, Altus CM, Pitts SJ, Elder LV, Delegeane AM, Panesar IS, Banville SC, Reddy TP; Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin , Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL; Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirtor ng M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gi Shi X, Suarez CJ;
                                                                      Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                     81.1%;
475
                                                                     Score 60; DB
Pred. No. 0.09
0; Mismatches
                                                                                     DB 8;
                                                                      ب
                                                                                                        Length 645;
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Search completed: June 13, Job time : 97.0588 secs

2006,

03:58:16

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Title:
Perfect score:
Sequence:
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No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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  Pred. No. is the number of results predicted by chance t score greater than or equal to the score of the result b and is derived by analysis of the total score distributi
                                                                                                                                                                                                                                                                                                                                                                                                                                   Score
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1: pir1:*
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Gapop 10.0 , Gapext 0.5
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74
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                                           SKLSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
  TFHUP
C65068
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	A; Molecule type: DNA rotein F12A21.3 [ A; Rosidues: 1-72,291-1 Varian protein - A; Cross-references: UI Anserved hypothet R; Uzan, G; Frain, M. Eithorax protein Biochem. Biophys. Res itcochondrial carr A; Title: Molecular clu itcochondrial carr A; Reference number: A:	rface antigen - A; Releance number: A; Receasion: A94044 robable signal re A; Rocession: A94044 robable signal re A; Rocession: A94044 robable signal re A; Residues: 73-263, 71 pothetical prote A; Cross-references: 1 pothetical prote R; Adrian, G.S.; Korii ajor surface anti Gene 49, 167-175, 19 ajor surface anti A; Reference number: 1 arge surface anti A; Reference number: 2 pothetical prote A; Accession: A29090	) v4 v4 v4		16
A;Residues: 422-690,'G',692-698 <uza> A;Cross-references: UNIPARC:UPI000016B0AB; EMBL:M12525; NID:g339468; PIDN:AAA61142.1; PI R;MacGillivray, R.T.A.; Mendez, E.; Sinha, S.K.; Sutton, M.R.; Lineback-Zins, J.; Brew,</uza>	A;Molecule type: DNA A;Molecule type: DNA A;Residues: 1-72;291-300 <adr> A;Residues: 1-72;291-300 <adr> A;Cross-references: UNIPARC:UPI000016B0AC; UNIPARC:UPI000016B0AD; EMBL:M15673 A;Cross-references: UNIPARC:UPI0000016D0AC; UNIPARC:UPI000016B0AD; EMBL:M15673 A;Cross-references: UNIPARC:UPI0000016D0AC; UNIPARC:UPI000016B0AD; EMBL:M15673 A;Nolecula: Diophys: Res: Community 273-281, 1984 A;Title: Molecular cloning and sequence analysis of cDNA for human transferrin. A;Reference number: A32739; MUID:84153910; PMID:6322780 A;Accession: A32739</adr></adr>	A;Recession: A94044 A;Rocession: A94044 A;Rocession: A94044 A;Rocession: A94044 A;Rocession: A94044 A;Rocession: A94044 A;Rocession: A92044 A;Rocession: A92090 A;Redidues: 73-263,'E',265-328,'N',330-562 <par> A;Residues: 73-263,'E',265-328,'N',330-562 <par> A;Rocession: A29090 A;Rocession: A29090 A;Rocession: A29090</par></par>	R;Park, I.; Schaeffer, E.; Sidoli, A.; Baralle, F.E.; Cohen, G.N.; Zakin, M.M. Proc. Natl. Acad. Sci. U.S.A. 82, 3149-3153, 1985 A;Title: Organization of the human transferrin gene: direct evidence that it originated A.Title: number against with FRSJ6479; PMTD-1358812	TRESULT 1 TREMUP  transferrin precursor [validated] - human  N;Alternate names: siderophilin  C;Species: Homo sapiens (man)  C;Apcession: A20981; A92417; A94044; A29909; A32739; I51959; I63133; I54011; I68160; A03.  C;Accession: A20981; A92417; A94044; A29909; A32739; I51959; I63133; I54011; I68160; A03.  C;Accession: A20981; A92417; A94044; A29909; A32739; I51959; I63133; I54011; I68160; A03.  R;Yang, F.; Lum, J.B.; McGill, J.R.; Moore, C.M.; Naylor, S.L.; van Bragt, P.H.; Baldwin  Proc. Natl. Acad. Sci. U.S.A. 81, 2752-2756, 1984  A;Title: Human transferrin: cDNA characterization and chromosomal localization.  A;Reference number: A20981; MUID:84194084; PMID:6585826  A;Contents: variant C  A;Contents: variant C  A;Accession: A20981  A;Residues: 1-698 vYAN-  A;Rocession: A92417; MUID:83160878; PMID:6833213  A;Accession: A92417; MUID:83160878; PMID:6833213  A;Molecule type: protein  A;Molecule type: shown is the predominant electrophoretic genetic variant (C or TfC)  A;Note: the sequence shown is the predominant electrophoretic genetic variant (C or TfC)	ALIGNMENTS

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Science 277, 1453-1462, 1997
A;Title: The complete genome sequence of Escherichia coli
A;Reference number: A64720; MUID:97426617; PMID:9278503
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A;Residues: 636-696 <RE2>
A;Residues: 636-696 <RE2>
A;Residues: MID: G38-696 <RE2>
A;Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID: G339988; PIDN: AAA61233.1; PID: A;Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID: G339988; PIDN: AAA61233.1; PID: R;Schaeffer, E; Lucero, M.A.; Jeltsch, J.M.; Py, M.C.; Levin, M.J.; Chambon, P.; Cohen, Gene 56, 109-116, 1987
A;Title: Complete structure of the human transferrin gene. Comparison with analogous chi A;Reference number: I54011; MUID: 88056305; PMID: 3678832
A;Accession: I54011
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-72 <RE3>
                                                                                                                                                         hypothetical protein b2850 - Escherichia coli (strain K-12) C;Species: Bscherichia coli C;Species: Bscherichia coli C;Species: Pacherichia coli C;Date: 12-Sep-1997 #sequence_revision 17-Sep-1997 #text_change 09-Jul-2004 C;Datcession: C65068 R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; A.; Rose, D.J.; Mau, B.; Shao, Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Description: binds iron for delivery into cells C;Superfamily: transferrin; transferrin repeat ho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Map position: 3g21-3g21
A; Introns: 15/1; 72/3; 119/1; 168/1; 212/2; 231/1;
C; Function:
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A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 564-698 <RE4>
A;Cross-references: UNIPARC:UPI000016B
C;Comment: Each of the two repetitive C;Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPARC:UPI000002F089; GB:S95936; NR;Duguid, J.R.; Bohmont, C.W.; Liu, N.G.; Tourtellotte, Proc. Natl. Acad. Sci. U.S.A. 86, 7260-7264, 1989
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A; Residues: 1-698 < RES>
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A;Title: A cloned gene for human transferrin.
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A;Title: The complete amino acid sequence of human serum transferrin.
A;Reference number: A93911, MUID:82222166; PMID:6953407
A;Contents: annotation; disulfide bonds
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Keywords: duplication; glycoprotein; iron transport; metal binding; plasma;
Keywords: duplication; glycoprotein; iron transport; metal binding; plasma;
1-19/Domain: signal sequence #status predicted <SIO>
20-98/Product: transferrin #status experimental <WAT>
20-350/Domain: transferrin repeat homology <TRH1>
20-350/Domain: transferrin repeat homology <TRH2>
20-686/Domain: transferrin repeat homology <TRH2>
20-350/Domain: transferrin repeat homology <TRH2>
20-30/Domain: transferrin repeat homology <TRH2>
20-30/Domain:
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Pred. No. 0.0085;
0; Mismatches
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C;Genetics:
A;Gene: ECs3707
C;Superfamily: 1
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                                                                                                                                                                                                                                                                                         hypothetical protein Z4171 [imported] - Escherichia coli (strain O157:H7, substrain C;Species: Escherichia coli C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004 C;Accession: G85937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein ECs3707 (imported) C;Species: Escherichia coli C;Date: 18-Jul-2001 #sequence_revision 1 C;Accession: C91092 R;Hayashi, T.; Makino, K.; Ohnishi, M.;
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A;Molecule type: DNA
A;Residues: 1-148 <BLAT>
                                                               A; Gene: Z4171
C; Superfamily:
                                                                                                           A;Cross-references: UNIPROT:Q8X6H8; UNIPARC:UPI00000D0B83; A;Experimental source: strain O157:H7, substrain EDL933
                                                                                                                                                            A;Status: preliminary A;Molecule type: DNA
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                                                                                                                                                                                                                            A; Title: Genome sequence of
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                Query Match
Best Local
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Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004;
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N.; Yasunaga, T.; Kuhara, S.;
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MUID:21074935; PMID:11206551
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2; Mismatches
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Pred. No.
                Score 41; D
Pred. No. 5.
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Shiba, T.; Hattori,
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A.; Dimalanta,
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lanta, E.;
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M.; Shinagawa,
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Potamousis,
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KLSMGSGLNLSE 13

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RESULT 7
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N;Contains: major surface antigen; middle surface antigen
C;Species: hepatitis B virus, HBV
A;Variety: isolate 09D09HCC
C;Date: 13-Aug-1999 #sequence_revision 13-Aug-1999 #text_change 09-Jul-2004
C;Accession: T13469
R;Takahashi, K.; Akahane, Y.; Hino, K.; Ohta, Y.; Mishiro, S.
Arch. Virol. 143, 2313-2326, 1998
A;Title: Hepatitis B virus genomic sequence in the circulation of hepatocell
A;Reference number: Z17684; MUID:99129050; PMID:9930189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N;Contains: major surface antigen; middle surface antigen
C;Species: hepatitis Virus, HBV
A;Variety: isolate 29Y11HCC
C;Date: 13-Aug-1999 #sequence_revision 13-Aug-1999 #text_change 31-Dec-2004
C;Accession: T13474
R;Takahashi, K; Akahane, Y; Hino, K.; Ohta, Y.; Mishiro, S.
Arch. Virol 143, 2313-2326, 1998
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A; Residues: 1-382 <T
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N.Alternate names: envelope protein; HBs antigen
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Keywords: glycoprotein; surface antigen
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Pred. No.
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Pred. No. 21;
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R;Mukaide, M.; Kumazawa, T.; Hoshi, A.; Kawaguchi, R.; Hikiji, K. Nucleic Acids Res. 20, 6105, 1992
A;Title: The complete nucleotide sequence of hepatitis B virus, s A;Reference number: S35527; MUID:93096607; PMID:1461746
A;Accession: S35528
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A; Residues: 275-354 < NO2>
A; Cross-references: UNIPARC: UPI000017496D
A; Cross-references: subtype adrq+, Bau
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A;Title: The nucleotide sequence and reading frames of a mutant hepat A;Reference number: S04568; MUID:89183619; PMID:2928116
A;Accession: S04569
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C;Species: hepatitis B virus, HBV
C;Species: hepatitis B virus, HBV
C;Date: 14-Nov-1983 #sequence revision 14-Nov-1983 #text_change 09-Jul-2004
C;Accession: A03705; S04569; JQ2107; PQ0608
R;Ono, Y.; Onda, H.; Sasada, R.; Igarashi, K.; Sugino, Y.; Nishioka, K.
Nucleic Acids Res. 11, 1747-1757, 1983
                                                                                                                                                                                                                                                                                                                  surface antigen - hepatitis B virus (subtype adr)
N;Alternate names: envelope protein; HBs antigen
N;Contains: surface antigen pre-S1 (large envelope protein); surface antigen
C;Species: hepatitis B virus, HBV
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A;Residues: 175-400 <NOR>
A;Residues: 175-400 <NOR>
A;Cross-references: UNIPARC:UPI0000033737
A;Experimental source: genogroup C, subtype adr, strain pBRHBadr4
R;Norder, H.; Courouce, A.M.; Magnius, L.O.
J. Gen. Virol. 73, 3141-3145, 1992
A;Title: Molecular basis of hepatitis B virus serotype variations within the four major A;Reference number: PQ0453; MUID:93107848; PMID:1469353
A;Accession: PQ0608
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A; Molecule type: DNA
A; Residues: 1-50, 'R', 52-66, 'YP', 69-129, 'V', 131-142, 'P', 144-164, 'S', 166-176, 'S', 178-338, 'A; Residues: 1-50, 'R', 52-66, 'YP', 69-129, 'V', 131-142, 'P', 144-164, 'S', 166-176, 'S', 178-338, 'A; R; Rorsser effectives: UNIPARC: UPI00017496C; EMBL:X14193
A; Cross-references: UNIPARC: UPI00017496C; EMBL:X14193
A; Cross-references: UNIPARC: UPI00017496C; EMBL:X14193
J. Gen. Virol. 74, 1341-1348, 1993
                                                                                                                                                                                                             A;Variety: subtype adr
C;Date: 09-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S35528
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A;Accession: A03705
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A; Residues: 1-400 < ONO>
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N;Contains: major surface antigen; middle surface antig
Status: nucleic acid sequence not shown; translation not
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Best Local
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A;Variety: subtype adr
C;Date: 07-Sep-1994 #sequence_revision 10-Nov-1995 #text_change
C;Accession: $43492; PN0601; PN0602
C;Accession: $43492; PN0601; PN0602
R;Loncarevic, I.F.; Zentgraf, H.; Schroeder, C.H.
Nucleic Acids Res. 18, 4940, 1990
A;Title: Sequence of a replication competent hepatitis B virus
A;Reference number: $12598; MUID:90370503; PMID:2395664
A;Accession: $43492
A;Accession: $43492
A;Status: translation not shown
A;Molecule type: DNA
A;Residues: 1-445 <LON>
A;Residues: 1-445 <LON-
A;Residues: 1-445 <LO
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S43492
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                                                                                                                                                                                                                                                                                                   F;1-445/Product: surface antigen pre-S1 (large envelope protein) #status F;1-54/Domain: pre-S1 domain #status predicted <PRE1> F;165-445/Product: surface antigen pre-S2 (middle envelope protein) #status F;165-219/Domain: pre-S2 domain #status predicted <PRE2>
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A;Residues: 165-196 <MI2>
A;Cross-references: UNIPARC:UPI0000178459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: protein
A;Residues: 57-95 «MIM»
A;Cross-references: UNIPARC:UPI0000178459
A;Accession: PN0602
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A;Gene: S
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Best Local S
Matches 9
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Best Local Similarity
Matches 9; Conserv
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larity 60.0%;
Conservative
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60.0%;
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                                                                                                                                              Score 40; DB Pred. No. 25; 0; Mismatches
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Nature 388, 539-547, 1997
A;Authors: Wallin, E.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; A;Title: The complete genome sequence of the gastric pathogen Helicobacter pyl A;Reference number: A64520; MUID:97394467; PMID:9252185
A;Accession: H64663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G:Species: Helicobacter pylori
A:Variety: strain J99 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C:Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C:Accession: D71852
C:Accession: D71852
C:Accession: R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.; Brown, E.D.; Doig, P.C.; Smith, D.R.; R;Alm, R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.; Brown, E.D.; Joing, D.E.; Vovis, G.F.; J.; Ives, C.; Gibson, R.; Merberg, D.; Mills, S.D.; Jiang, Q.; Taylor, D.E.; Vovis, G.F.; Nature 397, 176-180, 1999
                                     C;Accession: T27845
R;Favello, T.
submitted to the EMBL Data Library, November 1995
                                                                                                       hypothetical protein ZK402.5 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;pate: 15-Oct-1999 #sequence_revision 15-Oct-1999 #t
                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 1-448 <TOM>
A;Residues: 1-448 <TOM>
C;Superfamily: signal recognition particle SAK process
C;Superfamily: signal recognition particle SAK process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Tomb, J.F.; White, O.; Kerlavage, A.R.; Clayton, R.A.; Sutton, G.G.; Fleischmann, Peterson, S.; Loftus, B.; Richardson, D.; Dodson, R.; Khalak, H.G.; Glodek, A.; Mcson, J.D.; Kelley, J.M.; Cotton, M.D.; Weldman, J.M.; Fujii, C.; Bowman, C.; Watthe
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H64663
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A;Gene: ffh
C;Superfamily:
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C;Species: Helicobacter pylori
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C;Species: Helicobacter pylori
  A; Reference number:
                       A; Description:
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mber: Z20429
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NID

NID

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N;Contains: Bullion B. Virus, HBV
C;Species: hepatitis B. Virus, HBV
A;Variety: subtype adw2
C;Date: 31-Dec-1993 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: S47411; JQ1575
R;Plucienniczak, A.
submitted to the EMBL Data Library, August 1994
submitted to the EMBL Data Cloning and sequencing of two complete genomes of
                  A;Accession: $47411
A;Molecule type: DNA
A;Residues: 1-400 <PLU>
A;Residues: 1-400 <PLU>
A;Cross-references: UNIPROT:Q67896; UNIPARC:UPI00000F5BAF; EMBL:Z35717; NID:g527440;
A;Experimental source: subtype adw2
A;Experimental source: subtype adw2
R;Norder, H; Hammas, B; Loefdahl, S; Courouce, A.M.; Magnius, L.O.
J. Gen. Virol. 73, 1201-1208, 1992
J. Gen. Virol. 73, 1201-1208, 1992
A;Title: Comparison of the amino acid sequences of nine different serotypes of hepati
A;Reference number: JQ1570; MUID:92268879; PMID:1588323
A;Accession: JQ1575
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A;Experimental source: strain N315
C;Genetics:
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C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Accession: C89991
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.;
ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu,
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.
Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: C89991
                                                                                                                                                                                                                                                                                                                                                                                                                                            N;Alternate names: envelope protein, HBs antigen N;Contains: surface antigen pre-S1 (large envelope C;Species: hepatitis B virus, HBV
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A;Molecule type: DNA
A;Residues: 1-516 <FAV>
A;Cross-references: UNIPROT:Q23477; UNIPARC:UPI00000783D4; EMBL:U40956; PIDN:AAA81756.1.
C;Genetics:
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C;Superfamily:
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A;Introns: 28/2; 122/2; 160/2; 248/2; 420/3
C;Superfamily: Caenorhabditis elegans hypothetical
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A; Residues: 1-338 < KUR>
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A;Molecule type: DNA
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46.7%;
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SKPRKGMGTNLSVPN

2006, 04:20:33

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C;Superfamily: hepatitis B virus surface antigen C;Keywords: glycoprotein; surface antigen (c;Keywords: glycoprotein; surface antigen (gene pre-2/S) #status predicted F;120-400/Product: middle surface antigen (gene S) #status predicted <MSA> F;175-400/Product: major surface antigen (gene S) #status predicted <MSA> F;15,123,177/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 large surface antigen - hepatitis B virus (subtype adw, strain 991)
N;Contains: major surface antigen; middle surface antigen C;Species: hepatitis B virus, HBV
C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F;1-119/Domain: pre-S1 domain #status predicted <PRE1>
F;120-400/Product: surface antigen pre-S2 (middle envelope protein) #status predicted F;120-174/Domain: pre-S2 domain #status predicted <PRE2>
F;175-400/Product: surface antigen S (small envelope protein) #status predicted <PSD>
F;177/Binding site: carbohydrate (Asn) (covalent) #status predicted
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C;Superfamily: hepatitis B virus surface antigen
C;Keywords: glycoprotein; surface antigen
C;Keywords: glycoprotein; surface antigen
F;1-400/Product: surface antigen pre-S1 (large envelope protein) #status predicted <PS1>
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A;Cross-references: UNIPARC:UPI00000002E4; GB:X75666; NID:g416074; PIDN:CAA53362.1;
A;Experimental source: subtype adw2, strain P6
C;Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: DNA
A;Residues: 1-400 <KOE>
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Library, February 1990
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     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Match
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Gapop 10.0 , Gapext 0.5
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1: uniprot_sprot:*
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       DB
 TRFE HUMAN
Q53HZ6 HUMAN
Q53HZ6 HONPY
Q98952 HBV
Q943K6 CRYSA
Q5A1Q2 CANAL
Q8JZ72 CANAL
Q8JZ72 CANAL
Q45RA5_STRFR
Q3YJZ5 HAEPR
Q3YJZ5 HAEPR
Q5BE11 EMENI
Q5CSS_CRYPV
Q4SQN4 TETNG
Q5SH12 CANAL
PDK1L BRARE
Q8NCB7 HUMAN
RAZZB HUMAN
Q5TQJZ ANOGA
Q59HZ CANGA
Q59HZ CANGA
Q59HZ CANGA
Q51QJZ ANOGA
Q41SH GCANGA
Q41SH GCANAA
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P02787 homo sapien
Q53126 homo sapien
Q53126 homo sapien
Q59136 cryza sativ
Q94386 cryza sativ
Q54127 candida alb
Q81312 candida alb
Q81313 treptomyce
Q3y125 haemophilus
Q50811 sapergillus
Q50816 rachydanio
Q8087 homo sapien
Q94168 homo sapien
Q94168 homo sapien
Q5412 anopheles g
Q43981 chlorobium
Q64mk0 candida gla
Q2uc93 aspergillus
Q84980 streptococc
Q81380 streptococc
Q81381 macaca fasc
Q80379 pyrococcus
Q50919 shigella so
Q46786 escherichia
Q30019 mus musculu
Q8x618 escherichia
Q30197 hepatitis b
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Warusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Warusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Warusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Warusina K., Foshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Wadan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Wadan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schentz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalbka U., Smailus D.E.,
Tend mouse c.D.M., Sechen J.E., Jones S.J.M., Marra M.A.;
Tendengue C. Shen J.E., Jones S.J.M., Marra M.A.;
Tendengue C. Shen J.E., Jones S.J.M., Marra M.A.;
Tendengue C. Shen J. Schein J.E., Jones S.J.M., Marra M.A.;
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NUCLEOTIDE SE
TISSUE=Brain;
                                         NUCLEOTIDE SEQUENCE OF 1-72 AND 291-300.

MEDLINE-87192006; PubMed-3106157; DOI=10.1016/0378-1119(86)90277-5;

Adrian G.S., Korinek B.W., Bowman B.H., Yang F.;

"The human transferrin gene: 5' region contains conserved sequences which match the control elements regulated by heavy metals, glucocorticolds and acute phase reaction.";
                                                                                                                                                                   regulatory
Nucleic Ac
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MEDLINE=87066744; PubMed=3786138;
Lucero M.A., Schaeffer E., Cohen G.N., 2
"The 5' region of the human transferrin
                                                                                                                                                                                                                                                                                                          "Organization of the human transferrin gene: originated by gene duplication.";
                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE OF 73-698.
MEDLINE=85216459; PubMed=3858812;
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structure.";
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Lineback-Zins J., Brew K.;
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Zakin M.M., Kahn A.;
"Molecular cloning and
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MEDLINE=83160878; PubMed=6833213;
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MEDLLNB=98434369; PubMed=9760233; DOI=10.1021/bi9812064;
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Duguid J.R., Bohmont C.W., Liu N.G., Tourtellotte W.
"Changes in brain gene expression shared by scrapie
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DT 24-MAY-2005, sequence version 1.
DT 24-MAY-2005, sequence version 1.
DT 07-FEB-2006, entry version 4.
DE Transferrin variant (Fragment).
OC Homo sapiens (Human).
OC Homo sapiens (Human).
OC Homo sapiens (Human).
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RX MEDLINE=94171032; PubMed=8125298; D
RA Maruyama K., Sugano S.;
RT "Oligo-capping : a simple method to encaryotic mRNAs with oligoribonucl gene 138:171-174 (1994).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RX MEDLINE=98038986; PubMed=9373149; D
RX MEDLINE=98038986; PubMed=9373149; D
RX SUZUKI Y., Yoshitomo K., Maruyama K
"Construction and characterization end-enriched cDNA library.";
R1 Gene 200:149-156(1997).
RN [2]
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RC Gene 200:149-156(1997).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RC Suzuki Y., Yoshitomo K., Maruyama K
RT Gene 200:149-156(1997).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RC Suzuki Y., Sugano S., Totoki Y., To RA Suzuki Y., Yoshitomo K., Maruyama K
RT Gene 200:149-156(1997).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RA Suzuki Y., Sugano S., Totoki Y., To RA Suzuki Y., Sugano S., Totoki Y., To RA Suzuki Y., Yoshitomo K., Maruyama K
RT Gene 200:149-156(1997).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Liver;
RA Suzuki Y., Sugano S., Totoki Y., To RA Suzuki F., Yokoyama S.;
RC Suzuki Y., Sugano S., Totoki Y., To RA Suzuki Y., Yoshitomo K., Maruyama K
RT Gene 200:149-156(1997).
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RC TISSUE-Liver;
RA Suzuki Y., Yoshitomo K., Maruyama K
RT Gene 200:149-156(1997).
RN [3]
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RT Gene 200:149-156(1997).
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SWART; SW00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1; 2.
PROSITE; PS00206; TRANSFERRIN 2; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
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GO:0005576; C:extracellular region; IEA.
GO:0008199; F:ferric iron binding; IEA.
GO:0006879; P:iron ion homeostasis; IEA.
GO:0006826; P:iron ion transport; IEA.
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     l Similarity
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                          81.1%;
85.7%;
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Pred. No. 0.09;
                            Score 60; [
Pred. No. 0.
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                                                                                                             A54775D23B9A4FFF CRC64;
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RESULT 4
Q9E952 HBV
ID Q9E952;
AC Q9E952;
DT 01-MAR-2001.
DT 01-PEB-2006
DE Large surfac
OS Hepatitis B
OC Viruses; Rep
CO Orthohepadna
OX NCBI_TaxID=1
RN [1]
RN [1]
RA SUGBAUCHI F.
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Best Local
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1; 2.
PROSITE; PS00206; TRANSFERRIN 2; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMR; Q5R9L7; 23-346.

GO; GO:0005576; C:extracellular region; IEA.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008199; P:iron ion homeostasis; IEA.
GO; GO:0006879; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60;
PANTHER; PTHR11485; Peptidase S60; 1.
PANTHER; PTHR11485; Transferrin; 2.
NUCLEOTIDE SEQUENCE.
MEDLINE=20528423; PubMed=11074474;

DOI=10.1002/1096-9071(200012)62:42456::AID-JMV10>3.0.CO;2-3;

Sugauchi F., Mizokami M., Orito E., Ohno T., Kato H., Maki M
                                                                                                                                                                                                                    Large surface antigen. Hepatitis B virus (HBV)
                                                                                                                                                                                                                                                                      01-MAR-2001, integrated into UniProtKB/TrEMBL 01-MAR-2001, sequence version 1. 07-FEB-2006, entry version 16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hypothetical protein. SEQUENCE 697 AA; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The German cDNA Consortium; Bloecker H., Boecher M., Brandt P., Mewes H.W., Weil B., Osanger A., Fobo G., Han M., Wiemann S.; Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
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21-DEC-2004, sequence version 1.
07-FEB-2006, entry version 6.
Hypothetical protein DKFZp459H0229
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Q5R9L7;
                                                                                                                                      NCBI_TaxID=10407;
                                                                                                                                                                  Orthohepadnavirus.
                                                                                                                                                                                           Viruses; Retro-transcribing viruses; Hepadnaviridae;
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Eukaryota; Metazoa; Chordat
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10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64.9%;
71.4%;
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Pred. No. 15;
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RESULT 5
Q943K6 ORYSA
ID Q943K6, ORYSA
AC Q943K6, ORYSA
AN AMBEL VERYSA
RA WILLEOTIDE SEQ
RY MEDLINE-22373
RA Sasaki T., Mat
RA HIJISHITAS., M
RA OKAMOTO M., AN
RA HIJISHITAS., M
RA KARASAWA W., ME
RA MACHITA W., ME
RA MACHITA W., ME
RA MACHITA W., ME
RA MAGBAKI N., ME
RA NAMIKI N., ME
RA Shimokawa T.,
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WASDLINE-22337376; PubMed=12447438; DOI=10.1038/nature01184;

X MEDLINE-22337376; PubMed=12447438; DOI=10.1038/nature01184;

X Sasaki T., Matsumoto T., Yamamoto K., Sakata K., Baba T., Katayose Y.,

X Mu J., Nimura Y., Cheng Z., Nagamura Y., Antonio B.A., Kanamori H.,

X Mu J., Nimura Y., Cheng Z., Nagamura Y., Antonio B.A., Kanamori H.,

X Hosokawa S., Masukawa M., Arikawa K., Chiden Y., Hayashi M.,

X Chiden Y., Hayashi M.,

X Hijishita S., Honda M., Ichikawa Y., Idonuma A., Iijima M., Ikeda M.,

X Hijishita S., Honda M., Ichikawa Y., Idonuma A., Iijima M., Ikeda M.,

X Ikeno M., Ito S., Ito T., Ito Y., Ito Y., Iwabuchi A., Kamiya K.,

X Karasawa W., Katagiri S., Kikuta A., Kobayyashi N., Kono I.,

X Karasawa W., Katagiri S., Kikuta A., Kobayyashi T., Mukai Y.,

X Karasawa W., Katagiri S., Kikuta A., Kobayashi T., Mukai Y.,

X Nagasaki H., Nakashima M., Nakama Y., Nakamichi Y., Nakamura M.,

X Namiki N., Negishi M., Ohta I., Ono N., Saji S., Sakai K., Shibata M.,

X Shimokawa T., Shomura A., Song J., Takazaki Y., Terasawa K., Tsuji K.,
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Best Local S
Matches 10
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                                                                                                                                                                                                                                                                                                                                                                                                                               01-DEC-2001, sequence version 1.
07-FEB-2006, entry version 18.
07-FEB-2006, entry version 18.
Putative SIT1 protein (Sodium/lithium tolerance protein).
Name=P0031D11.42; Synonyms=P0408C03.17;
Oryza sativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; BEP clade;
Ehrhartoideae; Oryzeae; Oryza.
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''ma M., Ikeda M.,
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Matches 10
Query Match
                                                                    EMBL; AACQ01000082; EAK96633.1; -; Genomic_DNA.
EMBL; AACQ01000081; EAK96692.1; -; Genomic_DNA.
InterPro; IPR002048; EF hand_Ca bd.
PROSITE; PS00018; EF HAND_1; UNKNOWN_1.
Hypothetical_protein.
                                                                                                                                                                                                                                                                                                                                    PubMed=15123810; DOI=10.1073/pnas.0401648101;
Jones T., Federspiel N.A., Chibana H., Dungan J., K.
Magee B.B., Newport G., Thorstenson Y.R., Agabian N
Davis R.W., Scherer S.;
"The diploid genome sequence of Candida albicans.";
Proc. Natl. Acad. Sci. U.S.A. 101:7329-7334 (2004)
-!- CAUTION: The sequence shown here is derived from EMBL/GenBank/DDBJ whole genome shotgun (WGS) en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-APR-2005, integrated into UniProtKB/TrEMBL.
26-APR-2005, sequence version 1.
07-FEB-2006, entry version 7.
Hypothetical protein GPR1.
Name=GPR1, ORFNames=CaO19.1944, CaO19.9499;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Candida albicans SC5314.
Eukaryota; Fungi; Ascomycota;
Saccharomycetales; mitosporic
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EMBL; AP003241; BAB93215.1; -; Genomic_DNA.
EMBL; AY67259; AAT81168.1; -; Genomic_DNA.
Gramene; Q943K6; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Antoine W., Stewart J.M., de los Reyes B.G.;
"Posttranslational modification of the rice SLT proteins for chaperone activity under stress conditions.";
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Waki K., Yamagata H., Yamane H., Zhong H., Iwama H., Endo T., Ito Yano M., Jiang J., Gojobori T.;
                                                                                                                                                                                                                                  Copyrighted by the UniProt Consortium, see http://www.uniprot.org/termsDistributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=SC5314
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nature
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H., Kim H.-
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H.-I.,
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07-FEB-2006, e
Hypothetical i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Receptor.
SEQUENCE
                                                                                                                                                                             Baltz R.H.;
"The lipopeptide antibiotic
Streptomyces fradiae.";
                                                                                                                                                                                                                                                                                                                                                                                                                                            Hypothetical protein.

Streptomyces fradiae.

Streptomyces fradiae.

Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;

Bacteria; Actinobacteria; Streptomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AB084519; BAC22916.1; -; Genomic_DN
GO; GO:0004872; F:receptor activity; IEA.
InterPro; IPR002048; EF hand Ca_bd.
PROSITE; PS00018; EF_HAND_1; UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Gpr1, a putative G-protein-coupled reand hypha formation in the pathogenic Eukaryot. Cell 3:919-931(2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Candida albicans (Yeast).

Eukaryota; Pungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; mitosporic Saccharomycetales; Candida.

NCBI_TaxID=5476;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR-2003, integrated into U
01-MAR-2003, sequence version
07-FEB-2006, entry version 12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 QBJ2T2;
                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE.
STRAIN=NRRL18158;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Streptomycineae;
NCBI_TaxID=1906;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE.
PubMed=15302825; DOI=10
Miwa T., Takagi Y., Shi
Kumagai H., Tamaki H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G-protein coupled receptor.
                                                                                                                                                   J. Ind. Microbiol. Biotechnol. 0:0-0(2005).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Name=caGPR1
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8; Conserv
                                                                                                                                                                                                                                                                                        Brost R., Chapple J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKLSMGSGLNLSEP 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SPMSMGAGINWTEP 669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  823 AA; 92341 MW;
                                            by the UniProt Consortium, see http://www.uniprot.org/terms under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         integrated into UniProtKB/TrEMBL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
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Y., Shinozaki M., Yun C.W., Schell W.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   62.2%;
57.1%;
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Pred. No. 43;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4B3A61EBEDD6E709 CRC64;
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                                                                                                                                                                                                                                                                                        K., Coeffet-Le Gal M.-F.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           347 AA.
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RESULT 10
Q5BE11 EMENI
D5BE11;
AC Q5BE11;
AC Q5BE11;
DT 26-APR-2005, integrated
DT 26-APR-2005, sequence very
DT 07-MAR-2006, entry very
DT 07-MAR-2011 protein.
GN QRFNames=AN1219.2;
                                                                                                                                                                                                                                                                                                   RESULT 9
Q3YJ25 HAEPR
ID V3YJ25 HAEPR
AC Q3YJ25;
DT 27-SEP-2005, 8
DT 27-SEP-2006, 6
DE PUTATIVE heme
GN Name-hxuB;
OS Haemophilus po
OC Pasteurellacee
OX NCBI_TAXID=738
RN [1]
RN NUCLEOTIDE SEC
RC STRAIN=29775;
RA Melnikow B., 1
RA Selzer P.M., 1
RT "Microarray ar
RT vitro growth c
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CC EMBL; D012793;
FT NON TER
SQUENCE 444
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Best Local (
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Best Local
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                                                                                                                                                                                                                                                                                                    EMBL; DQ127937; AAZ67641.1; -;
NON TER 1 1
SEQUENCE 444 AA; 49811 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                  Melnikow E., Dornan S., Sargent C., Duszenko M., Evans G., Guser P.M., Ullrich H.J.; Selzer P.M., Ullrich H.J.; "Microarray analysis of Haemophilus parasuis gene expression vitro growth conditions mimicking the in vivo environment."; Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Haemophilus parasuis.
Bacteria; Proteobacteria; Gam
Pasteurellaceae; Haemophilus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-SBP-2005, integrated into UniProt 27-SBP-2005, sequence version 1. 07-FBB-2006, entry version 3. Putative heme-hemopexin utilization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINTS; PRO011; ABHYDROLASE.

PRINTS; PRO0412; EPOXHYDRLASE.

PROSITE; PS00560; CARBOXYPEPT SER HIS; 1.

Antibiotic biosynthesis; Hypothetical pro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                     Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=29775;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=738;
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                                                                                                                                                                                                                                        Similarity 9; Conserv
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                                                                                                                                                                                                          SMGSGLNLSEPN
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                                                                                                                                                                                                                                                                                                                                                                                      by the UniProt Consortium,
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                               entry version
                                                sequence version
                                                               integrated into UniProtKB/TrEMBL
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                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F:hydrolase activity; TEA.
F:serine carboxypeptidase activity; IEA.
P:antibiotic biosynthesis; IEA.
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                                                                                                                                                                                                                                                       60.8%;
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57.1%;
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                                                                                                                                                                                                                                                       Score 45;
Pred. No.
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598D45B0255F2C35 CRC64;
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                                                                                                                                                                                                                                                                                                        BB1A89DB46EF8565 CRC64;
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                                                                                              694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             444 AA.
                                                                                                                                                                                                                                                           DB
32;
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                                                                                                                                                                                                                                                                        Length 444;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pasteurellales;
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RESULT 11

Q5CSS5 CRYPV
ID 12-APR-2
DT 12-APR-2
ID COMPNAMES
OC CTYPLOSE
OC COPPLIST
O
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12-APR-2005, sequence version 1.
07-FEB-2006, entry version 5.
Extracellular membrane associated protein with a sextracellular membrane domains and a pentraxin
                                                                                                                                                                                                                                                                                                   NUCLEOTIUE STRAIN-IONA type II;
STRAIN-IONA type II;
PubMed=15044751; DOI=10.1126/science.1094786;
PubMed=15044751; DOI=10.1126/science.1094786;
Abrahamsen M.S., Templeton T.J., Enomoto S., Abrahante (Lancto C.A., Deng M., Liu C., Widmer G., Tzipori S., Bu Bankier A.T., Dear P.H., Konfortov B.A., Spriggs H.F., Anantharaman V., Aravind L., Kapur V.;
Anantharaman V., Aravind L., Kapur V.;
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-I- CAUTION: The sequence shown here is derived in the sequence should be sequenced.
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Eukaryota; Fungi; Ascomycota;
Eurotiales; Trichocomaceae; En
NCBI_TaxID=227321;
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Science 304:441-445(2004).
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Eukaryota; Alveolata; Apicomplexa;
Cryptosporidiidae; Cryptosporidium.
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                                                          by the UniProt Consortium, under the Creative Commons
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RA Jaillon O., Aury J.-M., Brunet F., Petit J.-L., Stange-Thomann N.,
RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
RA Micaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA Anthouard V., Jubin C., Cattolico L., Poulain J., De Bezardinis V.,
RA Blemont C., Skalli Z., Cattolico L., Poulain J., De Bezardinis V.,
RA Cruaud C., Duprat S., Brottier P., Coutannceau J.-P., Gouzy J.,
RA Cruaud C., Duprat S., Brottier P., Coutannceau J.-P., Gouzy J.,
RA Cruaud C., Duprat S., Brottier P., Coutannceau J.-P., Gouzy J.,
RA Cruaud C., Duprat S., Ghapple C., McKernan K.J., McEwan P., Bosak S.,
RA Kellis M., Volff J.-N., Guigo R., Zody M.C., Mesirov J.,
RA Laudet V., Schachter V., Guutier F., Saurin W., Scarpelli C.,
RA Laudet V., Schachter V., Weissenbach J., Roest Crollius H.;
Renome duplication in the teleost fish Tetraodon nigroviridis reveals
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Tetraodon.
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19-JUL-2005, sequence version 1.
07-FEB-2006, entry version 3.
Chromosome 17 SCAF14532, whole genome shotgun ORFNames=GSTENG00014297001;
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                                                                                                                                                                                                            SEQUENCE
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Distributed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the early vertebrate proto-karyotype."; Nature 431:946-957(2004).
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9; Conserv
SKTSVGSGLSLEPP 600
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                                                   SKLSMGSGLNLSEP 14
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                                                                                                                                                                                                                                                                                   by the UniProt Consortium, under the Creative Commons
                                                                                                       Conservative
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99528 MW; I
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Pred. No.
                                                                                                                                Score 44;
Pred. No.
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                                                                                                                                                                                                          ; -; Genomic DNA.
B77E8544F5F21784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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Attribution-NoDerivs License
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RESULT 13 Q59NH2\_CANAL

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                                              EMBL;
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL;
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Q59NH2;
26-APR-2005, integrated int
26-APR-2005, sequence versi
07-FEB-2006, entry version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Serine/threonine-protein kinase pdik11 (EC 2.7.1.37). Name=pdik11; ORFNames=zgc:123209;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-JAN-2006, integrated into UniProtKB/Swiss-Prot. 06-DEC-2005, sequence version 1. 07-MAR-2006, entry version 4.
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Q32PP3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PubMed=15123810; DOI=10.1073/pnas.0401648101; Jones T. Federspiel N.A., Chibana H., Dungan J., Magee B.B., Newport G., Thorstenson Y.R., Agabian Davis R.W., Scherer S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Saccharomycetales; mitosporic NCBI_TaxID=237561;
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Eukaryota; Fungi; Ascomycota;
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                                                                                                                                                   Copyrighted by the UniProt Consortium, Distributed under the Creative Commons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Ovary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE (LARGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hypothetical
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Proc. Natl. Acad. Sci. U.S.A. 101:7329-7334(2004).
-i- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which
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       PROSITE; PS00107;
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AACQ01000205; EAK92038.1; -; Genomic_DNA.
                                                                             BC108040; AAI08041.1; -; mRNA
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                                                                                                                                                   by the UniProt Consortium, see http://www.uniprot.org/terms under the Creative Commons Attribution-NoDerivs License
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PROTEIN_KINASE_ATP; FALSE_NEG
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Pred. No. 13;
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Best Local
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Ensembl; ENSG00000123636; Homo sapiens.
GO; GO:0005515; F:protein binding; IEA.
GO; GO:0008270; F:zinc ion binding; IEA.
GO; GO:0008270; F:zinc ion binding; IEA.
GO; GO:0006355; P:regulation of transcript
InterPro; IPR001965; Znf_PHD.
Pfam; PF00628; PHD; 1.
SMART; SM00249; PHD; 1.
SMART; SM00249; PHD; 1.
SMART; SM00249; PHD; 1.
PROSITE; PS0016; PZF_PHD_2; 1.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-2002, integrated into Unit
01-OCT-2002, sequence version 1.
21-FEB-2006, entry version 17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.
PROSITE; PS00108; PROTEIN_KINASE_ST; 1.
ATP-binding; Kinase; Nuclear protein; Nucleotide-binding;
Serine/threonine-protein kinase; Transferase.
CHAIN 1 341
Serine/threonine-protein kinase pdikll.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA FLJ90414 fis, clone NT2RP3000125, similar BINDING PROTEIN 2. (Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QBNC87_HUMAN
QBNC87;
                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AK074895;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Copyrighted
Distributed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
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416
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                                                                                               Similarity 9; Conserv
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  SLGSGLGLSEGN
                                                   SMGSGLNLSEPN
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                                                                                                                                                                                                    796 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           by the UniProt Consortium, see http://www.uniprot.org/terms under the Creative Commons Attribution-NoDerivs License
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
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22
164
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                                                                                               Score 43; DB 2; Le
Pred. No. 1.5e+02;
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ATP (By similarity).

ATP (By acceptor (By
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                                                                                                                                                                                                                                                                                                                                                transcription,
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Search completed: June 13, Job time : 124.103 secs

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Total number of hits satisfying chosen parameters:
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                                                                                                                                                                                                                                               650591 seqs, 87530628 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                   650591
RESULT 1
US-08-175-158A-2
; Sequence 2, Application US/08175158A
; Patent No. 5986067
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                      US-08-683-262B-43
US-08-683-262B-44
US-08-683-262B-46
US-08-683-262B-46
US-08-683-262B-47
US-08-683-262B-47
US-08-683-262B-47
US-08-480-173A-48
US-08-481-707-39
US-09-361-707-42
US-09-361-707-43
US-09-361-707-44
US-09-361-707-45
US-09-361-707-45
US-09-361-707-47
US-09-361-707-47
US-09-361-707-48
                                                                                                                                                                            ALIGNMENTS
                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                    e 43, Apple 445, Apple 446, Apple 446, Apple 448, Apple 348, Apple 348, Apple 348, Apple 349, Apple
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Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Title: Perfect score:

US-10-612-162A-3 74

SKLSMGSGLNLSEPN 15

OM protein - protein search, using sw model

Scoring table: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched:

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21	60	81.1	- 1	21	US-08-175-158A-2 US-09-439-740-2	nc
	0 0	81.1			US-08-470-058-2	Sequence 2,
		81.1			-09-285-310-	equence
σ		81.1			-09-	Sequence 2,
		81.1	410		-08-470-058-	
0		81.1			-09-037-	Sequence 4,
	0 0	81.1			-09-285-31	4.4
11		70.3	969		77-4	Patent No. 5262177
		62.2	Φ		-09-248-796A	nce 19
		58.1	969		09-418-	1 7
154	44	58.1			US-09-839-479-71 US-09-418-710-21	Sequence /1
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40		54.7	4.		-09-489-039A-	
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21	40	54.1	S		-08-484-408A-5	Ø
22	40	54.1	70		-08-683-262B-4	æ
23	40	54.1	170		-09-361-707-4	Sequence 49
24	40	54.1	174		-08-683-262B-3	æ
25	40	54.1	174	_	-08-683-262B-3	ه س
36		54.1	174	_	-08-683-262B-4	Φ

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KLSMGSGLNLSEPN

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                                                                                                                            Sequence 2, Application US/08470058 Patent No. 5817789
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APPLICANT: FUNK, W
APPLICANT: MACGILL
APPLICANT: MASON,
                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
GENERAL INFORMATION:
APPLICANT: Heartlein, Michael W.
APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
TITLE OF INVENTION: Chimeric Proteins For Use in Transport
TITLE OF INVENTION: of a Selected Substance Into Cells
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 698 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: UVI-005CP2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: PC-1
SOFTWARE: ASCII text
CURRENT APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: WOODWORTH, ROBERT C.
TITLE OF INVENTION: RECOMBINANT TRANSFERRINS, TRANSFERRIN HALF-
TITLE OF INVENTION: MOLECULES AND MUTANTS THEREOF
NUMBER OF SEQUENCES: 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/439,740 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 02109
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  515 KLCMGSGLNLCEPN 528
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                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
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                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  227-5941
                                                                                                                                                                                                                                                                                                                            81.1%;
85.7%;
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Pred. No. 0.022;
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Best Local Similarity
Matches 12; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; MOLECULE TYPE: protein US-08-470-058-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-037-188-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2
Patent No.
                                                                                                                                             COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: FRASTSQ FOR Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Heartlein, Michael W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT9
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617,861-6240
             APPLICATION NUMBER:
FILING DATE: 06-UNI-1995
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Ph.D., J.D., J
REGISTRATION NUMBER: 34,819
                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: CH
TITLE OF INVENTION: IN
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Computible
COMPUTER: FOR PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                         FILING DATE: 02-MAR-1998 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                         CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS: unl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Lexington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C. STREET: Two Militia Drive
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
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225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                 Lemontt, Jeffrey F.
Concino, Michael F.
VENTION: CHIMERIC PROTEINS FOR USE
VENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
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07236/009002
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Pred. No.
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                                   Janie K.
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Best Local Similarity
Matches 12; Conserv
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TELEX: 200154
INFORMATION FOR SEQ ID NO: 2:
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/285,310 FILING DATE:
PRIOR APPLICATION DATA:
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TOPOLOGY: unknown
MOLECULE TYPE: protein
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LENGTH: 1074 amino acids
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APPLICANT: Connoino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: 617/542-5070
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ADDRESSEE: Fish & Richardson P.C.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM CONTROL OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 02110-2804
                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                     NAME: Fraser, Ph.D., J.D., REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 07
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 891 KLCMGSGLNLCEPN 904
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                         KLSMGSGLNLSEPN 15
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SYSTEM: Windows95
                                                                                                                                                             unknown
                                                                                                                                          protein
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85.7%;
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85.7%;
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                                                             Score 60; DB
Pred. No. 0.03
0; Mismatches
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Pred. No. 0.036;
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                                                                             DB 2; Length 1074;
0.036;
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APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE IN TRANSPORT TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS FILE REFERENCE: 10278-025004
CURRENT APPLICATION UNMBER: US/09/753,385
CURRENT FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: US 08/470,058
PRIOR APPLICATION NUMBER: US 08/470,058
PRIOR APPLICATION NUMBER: US 09/037,188
PRIOR FILING DATE: 1995-06-06
PRIOR FILING DATE: 1998-03-09
PRIOR FILING DATE: 1998-03-09
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                     TELEFAX: 617-861-9540 INFORMATION FOR SEQ ID NO:
                                                           ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT9
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
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TYPE: PRT
                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,058
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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SEQUENCE CHARACTERISTICS
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Local Similarity 85.7%;
es 12; Conservativo
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Two Militia Drive
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Pred. No. 0.036;
0; Mismatches
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LENGTH:

1410 amino acids

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RESULT 9
US-09-285-310-4
; Sequence 4, Application US/09285310
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Best Local Similarity
""" Ches 12; Conserve
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                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,188
FILING DATE: 02-MAR-1998
PRIOR APPLICATION UNDER: US/09/037,188
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT IMFORMATION:
NAME: Fraser, Ph.D., J.D., Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 07236/009002
TELEPANNE: 617/542-8906
TELEPAN: 617/542-8906
                                                                                                                                                  Matches
                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                               TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1410 amino acid
                                                                                                                                                                                                                                    MOLECULE TYPE: protein
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ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Lemontt, Jeffrey F.
APPLICANT: CONCINO, MICHAEL F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
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STRANDEDNESS: u
TOPOLOGY: unkno
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TOPOLOGY: unknows
                                                                                                                                                  Local Similarity es 12; Conserv
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                                                                                    1227
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Pred. No. 0.05;
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Pred. No. 0.05;
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APPLICANT: Heartlein, Michael W.
APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
APPLICANT: Concino, Michael F.
APPLICANT: Concino, Michael F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS
FILE REFERENCE: 10278-025004
CURRENT APPLICATION NUMBER: US/09/753,385
CURRENT FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: US 08/470,058
PRIOR APPLICATION NUMBER: US 09/037,188
PRIOR FILING DATE: 1998-03-09
PRIOR APPLICATION NUMBER: US 09/037,188
PRIOR APPLICATION NUMBER: US 09/285,310
PRIOR APPLICATION NUMBER: US 09/285,310
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1410 amin-
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                 Sequence 4, Application US/09753385
Patent No. 6858578
                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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Best Local Similarity
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APPLICANT: Heartle
APPLICANT: Lemontt
APPLICANT: Concino
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                                                                                                                                                                                                                                                                                                                                                                                                               -09-753-385-4
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NAME: Framer, Ph.D., J.D.,

REGISTRATION NUMBER: 34,819

REFERENCE/DOCKET NUMBER: 0723

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/542-5970
                                                           PRIOR FILING DATE: 1999-04-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: unknown MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
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ZIP: 02110-2804
COMPUTER READABLE FORM:
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
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Concino, Michael F.
CONCINO, MICHAEL F.
VENTION: CHIMERIC PROTEINS FOR USE
VENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
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Pred. No. 0.05;
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; NAME/KEY: UNSURE
; LOCATION: (12)
; OTHER INFORMATION:
US-09-248-796A-15968
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                                  Query Match
Best Local Similarity
Watches 8; Conserve
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US-09-248-796A-15968
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                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:

APPLICANT: Keith Weinstock et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208

SEQ ID NO 15968

LENGTH: 439

TYPE: PRT
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Best Local Similarity
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Candida albicans
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APPLICATION NUMBER: 827,313
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/7230
FILING DATE: 27-JAN-1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 696
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SKLSMGSGLNLSEP 14
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                                                                Conservative
                                                                                                                                                                                                                             Identity of amino acid sequences at the above locations are unknown
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78.6%;
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85.7%;
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                                                                                            Score 46; DB 2;
Pred. No. 4.5;
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Pred. No. 0.
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Pred. No. 0
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0.62;
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                                                                                                                              Length 439;
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US-09-839-479-71
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                                                                                                                                                                                                 NUMBER OF SEQ ID NOS:
SOFTWARE: FastSEQ for
SEQ ID NO 71
                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 71, Application US/09839479
Patent No. 6727222
GENERAL INFORMATION:
APPLICANT: Jones, Michael H.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
FILE REFERENCE: 06501-042002
                                                               Matches
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SEQ ID NO 72
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Patent No. 6596482
                                                            Best Local Similarity Matches 9; Conserv
                                                                                              Query Match
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PRIOR FILING DATE: 1998-04-17
PRIOR APPLICATION NUMBER: JP 9/310027
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: JP 9/116570
PRIOR FILING DATE: 1997-04-18
NUMBER OF SEQ ID NOS: 73
                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/839,479
CURRENT FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: US 09/418,710
PRIOR FILING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/JP98/01783
PRIOR FILING DATE: 1998-04-17
                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: JP 9/116570 PRIOR FILING DATE: 1997-04-18
                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: JP 9/310027 PRIOR FILING DATE: 1997-10-24
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CURRENT FILING DATE: 1999-10-15
                                                                                                                                                                 LENGTH: 19
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ENGTH:
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SLGSGLGLSEGN 1465
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75.0%;
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                                                                               Score 43;
Pred. No.
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Pred. No. 91;
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US-09-418-710-21

| Sequence 21, Application US/09418710 |
| Patent No. 6596482 |
| GENERAL INFORMATION: TRANSCRIPTIONAL REGULATOR |
| TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR |
| TITLE OF INVENTION INVEST: US/09/418,710 |
| CURRENT FILING DATE: 199-10-15 |
| PRIOR APPLICATION NUMBER: PCT/JP98/01783 |
| PRIOR APPLICATION NUMBER: PCT/JP98/01783 |
| PRIOR FILING DATE: 1998-04-17 |
| PRIOR FILING DATE: 1997-04-18 |
| PRIOR FILING DATE: 1997-04-18 |
| NUMBER OF SEQ ID NOS: 73 |
| SEO ID NO 21 |
| LENGTH: 1972 |
| TYPE: PRT |
| ORGANISM: Homo sapiens |
| US-09-418-710-21 |
| GRANTSM: Homo sapiens |
| US-09-418-710-21 |
| ORGANISM: Homo sapi
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Maximum Match 100%
Listing first 45 summaries
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is derived by analysis of the total score distribution.
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protein search, using
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3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

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                         SKLSMGSGLNLSEPN 15
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GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.
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US-10-378-094-15

US-10-384-060-36

US-09-891-126-5

US-10-266-745-5

US-10-378-094-3
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Sequence
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Sequence 15, Appl
Sequence 36, Appl
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	6     US-11-177-506-46     Sequence       6     US-11-038-901-2     Sequence       9     US-09-753-385-2     Sequence       9     US-09-753-385-4     Sequence       9     US-10-473-127-805     Sequence       9     US-10-473-127-805     Sequence       9     US-10-769-514-10     Sequence       9     US-10-769-514-42     Sequence       9     US-10-801-990-184     Sequence       9     US-10-801-990-184     Sequence       9     US-10-801-990-14     Sequence
	6     US-11-177-506-46     Sequence       6     US-11-038-901-2     Sequence       9     US-09-753-385-2     Sequence       9     US-09-753-385-4     Sequence       9     US-10-473-127-805     Sequence       9     US-10-473-127-805     Sequence       9     US-10-769-514-10     Sequence       9     US-10-769-514-42     Sequence       9     US-10-801-990-184     Sequence       9     US-10-801-990-184     Sequence       9     US-10-801-990-14     Sequence
US-11-177-506-46 US-11-038-901-2 US-9753-385-2 US-09-753-385-4 US-10-473-127-804 US-10-473-127-805 US-10-769-514-12 US-10-801-990-184 US-10-801-761-3754 US-09-839-479-71 US-09-839-479-71	-11-177-506-46 -11-138-901-2 -11-038-901-2 -13-038-901-2 -19-753-385-2 -10-753-385-2 -10-7473-127-804 -10-769-514-12 -10-769-514-12 -10-769-514-12 -10-769-514-12 -10-769-514-12 -10-769-514-12 -10-769-514-12 -10-769-514-12 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-14 -10-801-990-16 -10-377-63-110132 -10-801-990-16 -10-377-63-179-72 -10-801-901-90-16 -10-377-63-179-72 -10-801-901-90-16 -10-376-537-72 -10-801-901-90-16 -10-376-537-72 -10-801-901-901-901-901-901-901-901-901-901-9

## ALIGNMENTS

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APPLICANT: Dade Behring Marburg GmbH
ITILE OF INVENTION: Carbohydrate deficient transferrin (CD'
ITILE OF INVENTION: antibodies, their preparation and use
FILE REFERENCE: 2002/B001
[CURRENT APPLICATION NUMBER: US/10/612,162
[CURRENT FILING DATE: 2003-07-03
[PRIOR APPLICATION NUMBER: 10230550.1
[PRIOR FILING DATE: 2002-07-05
[PRIOR FILING DATE: 2002-07-05
[PRIOR FILING DATE: 2003-05-19
[PRIOR FILING D
APPLICANT: PRIOR, Christopher P.
APPLICANT: LAI, Char-Huei
APPLICANT: LAI, Char-Huei
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN FUSION PROTEINS
FILE REFERENCE: 54710-5001-01-US
CURRENT APPLICATION NUMBER: US/10/378,094
CURRENT FILLING DATE: 2003-03-04
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR PILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/334,059
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US-10-378-094-15
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US-10-612-162-3
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TYPE: PRT
ORGANISM: Homo sapiens
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15; Conserv
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100.0%; Pred. No. 3.4e-06;
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PRIOR FILING DATE: 2001-08-30

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; NAME/KEY: misc feature
; OTHER INFORMATION: C1 subdomain of transferrin
US-10-378-094-15
                                                                                                                                                                                                                                    US-09-891-126-5
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CURRENT APPLICATION NUMBER: US/10/384,060
CURRENT FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR PILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 80
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SEQ ID NO 36
LENGTH: 42
               Sequence 5, Application US/09891126
Patent No. US20020072596A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Transferrin Polynucleotides, Polypeptides, and Antibodies
FILE REFERENCE: PT035P1
CURRENT APPLICATION NUMBER: US/09/891,126
CURRENT FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: PCT/US00/34769
PRIOR FILING DATE: 2000-12-21
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 15
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APPLICANT: PRIOR, Christopher P.
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN-ANTIBODY FUSION PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT ORGANISM: Artificial sequence FEATURE:
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TYPE: PRT
ORGANISM: Homo sapiens
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APPLICATION NUMBER: 60/171,595
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Pred. No. 0.0036;
0; Mismatches
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APPLICANT: SADEGHI, Homayoun
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN FUSION PROTEINS
FILE REFERENCE: 54710-5001-01-US
CURRENT APPLICATION NUMBER: US/10/378,094
CURRENT FILING DATE: 2003-03-04
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 66
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US/09/891,126
PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: PCT/US00/34769
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/171,595
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 5
LENGTH: 328
TYPE: PRT
ORGANISM: Homo sapiens
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-891-126-5
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NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
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Best Local
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CURRENT FILING DATE: 2002-10-09
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TITLE OF INVENTION: Transferrin Polynucleotides, Polypeptides, and Antibodies
FILE REFERENCE: PT035P1
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12; Conserv
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Pred. No. 0.
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Sequence 3, Application US/10231494

Publication No. US20040023334A1

Publication No. US20040023334A1

Publication No. US20040023334A1

Publication No. US20040023334A1

APPLICATI: Prior, Christopher P.

FILE REFERENCE: 54710-5001-US

FULRENT APPLICATION NUMBER: US/10/231,494

CURRENT FILING DATE: 2002-08-30

PRIOR APPLICATION NUMBER: US 60/315,745

PRIOR APPLICATION NUMBER: US 60/315,745

PRIOR APPLICATION NUMBER: US 60/334,059

PRIOR APPLICATION NUMBER: US 60/334,059

PRIOR FILING DATE: 2001-11-30

NUMBER OF SEQ ID NOS: 30

COPPMANDE: DATE: 2001-11-30
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; OTHER INFORMATION: Mature Transferrin Protein US-10-378-094-3
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CURRENT APPLICATION NUMBER: US/10/384,060
CURRENT FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2001-08-30
PRIOR FILING DATE: 2002-08-30
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Best Local Similarity 85.7%;
Matches 12; Conservative
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APPLICANT: PRIOR, Christopher P.
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN-ANTIBODY FUSION PROTEINS
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SOFTWARE: PatentIn version 3.2
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NAME/KBY: MISC_FEATURE
OTHER INFORMATION: Mature Transferrin Protein
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TYPE: PRT
ORGANISM: Homo sapiens
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Pred. No. 0.079;
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; LENGTH: 679
; TYPE: PRT
; ORGANISM: Homo s
US-10-429-497-4
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RESULT 11
US-10-429-515-4
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-429-482-4
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US-10-429-497-4
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; LENGTH: 679
; TYPE: PRT
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TITLE OF INVENTION: Composition Useful For The Diagnosis, Imaging and Treatment Of
FILE REFERENCE: 2537.000001
CURRENT APPLICATION NUMBER: US/10/429,482
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
                                                                                                                  Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                                                                                                APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Methods For The Treatment of Tumors
FILE REFERENCE: 2537,00006
CURRENT APPLICATION NUMBER: US/10/429,497
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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Matches 12; Conservative
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85.7%;
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Pred. No. 0.079;
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Pred. No. 0.079;
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APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Composition Useful For The Treatment of Tumors
FILE REFERENCE: 2537.00003
CURRENT APPLICATION NUMBER: US/10/429,598
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-598-4
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US-10-429-635-4
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-429-515-4
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TITLE OF INVENTION: Methods For The Treatment Of Tumors
FILE REFERENCE: 2537.00005
CURRENT APPLICATION NUMBER: US/10/429,515
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
Query Match 81.1%;
Best Local Similarity 85.7%;
Matches 12; Conservative
                                                                                                              CURRENT APPLICATION NUMBER: US/10/429,635
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
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APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Composition Useful For Treatment Of Tumors
FILE REFERENCE: 2537.000007
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Publication No. US20040219100A1
GENERAL INFORMATION:
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Best Local Similarity 85.7%;
Matches 12; Conservative
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Best Local Similarity 85.7%;
Matches 12; Conservative
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 Score 60; DB 5;
Pred. No. 0.079;
0; Mismatches
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Pred. No. 0.079;
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Pred. No. 0.079;
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Search completed: June 13, 2006, 04:56:23
Job time: 86.25 secs
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TITLE OF INVENTION: Methods Useful For The Diagnosis, Imaging and Treatment Of
FILE REFERENCE: 5237.000004
CURRENT APPLICATION NUMBER: US/10/429,659
CURRENT FILING DATE: 2003-04-30
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4 670
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Publication No. US20040219103A1
GENERAL INFORMATION:
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TITLE OF INVENTION: Compositions For Drug Delivery
FILE REFERENCE: 2537,00009
CURRENT APPLICATION NUMBER: US/10/429,653
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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Best Local
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TYPE: PRT
ORGANISM: Homo sapiens
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TYPE: PRT
ORGANISM: Homo sapiens
                                                            496 KLCMGSGLNLCEPN 509
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Pred. No. 0.079;
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Maximum DB
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Match Length
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Gapop 10.0 , Gapext 0.5
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Listing first 45 summaries
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Copyright (c) 1993 - 2006 Biocceleration Ltd
   BB
           US-10-515-429-3
US-10-553-349-18406
US-10-953-349-18405
US-10-953-349-13574
US-11-1813-218-46
US-10-953-349-20639
US-10-953-349-20639
US-10-953-349-20637
US-10-953-349-20637
US-10-953-349-20637
US-11-293-697-4653
US-11-293-697-4653
US-11-293-697-2635
US-11-293-697-2635
US-11-293-349-29404
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US-10-953-349-13179
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sequence 18406, A Sequence 18404, A Sequence 18404, A Sequence 20639, A Sequence 20638, A Sequence 20637, A Sequence 20635, Ap Sequence 29404, A Sequence 29404, A Sequence 29403, A Sequence 29403, A Sequence 15250, A Sequence 15250, A Sequence 15249, A Sequence 15249, A Sequence 15249, A Sequence 13180, A Sequence 13180, A Sequence 13180, A Sequence 34845, A Sequence 34845, A
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US-10-515-429-3
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Publication No. US20060105387A1
GENERAL INFORMATION:
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45	44	43	42	41	40	9	9 8	37	36	35	34	33	32	31	30	29	28	27	26
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US-10-488-015-19	US-11-293-697-4198	US-10-953-349-21455	US-10-953-349-21456	US-10-953-349-21457	US-10-953-349-19882	US-10-953-349-19883		US-10-953-349-19884	US-10-953-349-2811	US-10-953-349-18593	US-10-953-349-18594	US-10-953-349-1332	-349-	US-10-953-349-20162	US-10-953-349-20164	US-10-505-928-131	US-10-953-349-20527	US-10-953-349-20528	US-10-953-349-20529
Sequence 19, Appl	Sequence 4198, Ap	Seguence 21455, A	Sequence 21456, A	Sequence 21457, A	Sequence 19882, A	e 19883,	Sequence 2810, Ap	Sequence 19884, A	Sequence 2811, Ap	Sequence 18593, A	Sequence 18594, A		Sequence 2812, Ap	N	Sequence 20164, A	Sequence 131, App	Sequence 20527, A	Sequence 20528, A	Sequence 20529, A

## ALIGNMENTS

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APPLICANT: Turner, Andrew J.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
ITILE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-WO
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-411-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
FRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3
LENGTH: 679
                                                                                                                                                                       RESULT 2
US-10-515-429-2
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; OTHER INFORMATION: Mature transferrin protein
US-10-515-429-3
Sequence 2, Application US/10515429
Publication No. US20060105387A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
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Best Local
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ORGANISM: Homo sapiens
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Local Similarity 85.7%;
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Pred. No. 0.0048;
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APPLICANT: ALEXANDROV, Nickolai et al.
TITLE OF INVENTION: SEQUENCE-DETERMINED DNA
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-15799US2
CURRENT APPLICATION NUMBER: US/10/953,349
CURRENT FILING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: Patentin version 3.3
SEQ ID NO 18406
LENGTH: 128
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CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
PRIOR FILING DATE: 2003-03-10
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
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; Sequence 18406, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
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US-10-953-349-18405
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                                       NUMBER OF SEQ ID NOS: 40252
SOFTWARE: PATENTIN VERBION 3.3
SEQ ID NO 18405
LENGTH: 167
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/10/953,349
CURRENT FILING DATE: 2004-09-30
                                                                                                                                                                             TITLE OF INVENTION: SEQUENCE-DETERMINED TITLE OF INVENTION: ENCONDED THERBY
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TYPE: PRT
ORGANISM: Glycine max
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Pred. No. 2
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Sequence 18404, Application US/10953349
Publication No. US20060107345A1
GENERAL INFORMATION:
APPLICANT: ALEXANDROV, Nickolai et al.
TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-1579PUS2
CURRENT APPLICATION NUMBER: US/10/953,349
CURRENT FILING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: Patentin version 3.3
SEQ ID NO 18404
LENGTH: 188
TYPE: PRT
ORGANISM: Glycine max
US-10-953-349-18404
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Best Local
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APPLICANT: Hakes, David
APPLICANT: Chen, Xi
APPLICANT: Bowe, Caryne
TITLE OF INVENTION: ERYTHROPOIETIN: REMODELING AND
TITLE OF INVENTION: GLYCOCONJUGATION OF ERYTHROPOIETIN
FILE REFERENCE: 040853-01-5083-US02
CURRENT APPLICATION NUMBER: US/11/183,218
CURRENT FILING DATE: 2005-07-15
                                                                                                                PRIOR APPLICATION NUMBER: US 60/404,249 PRIOR FILING DATE: 2002-08-16 PRIOR APPLICATION NUMBER: US 60/396,594 PRIOR FILING DATE: 2002-07-17
                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 10/410,945
PRIOR FILING DATE: 2003-04-09
PRIOR APPLICATION NUMBER: PCT/US02/32263
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                                                                                                                                                                                             PRIOR FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US 60/407,527
PRIOR FILING DATE: 2002-08-28
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                             FILING DATE: 2002-07-17
APPLICATION NUMBER: US 60/391,777
FILING DATE: 2002-06-25
APPLICATION NUMBER: US 60/387,292
FILING DATE: 2002-06-07
APPLICATION NUMBER: US 60/344,692 FILING DATE: 2001-11-19
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Pred. No.
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Pred. No. 3
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US-10-953-349-20639
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; ORGANISM: Glycine max
US-10-953-349-20639
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US-10-953-349-13574
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US-11-183-218-46
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Publication No. US20060107345A1

GEMERAL INFORMATION:

APPLICANT: ALEXANDROV, Nickolai et al.

TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES

TITLE OF INVENTION: ENCONDED THERBY

FILE REFERENCE: 2750-1579PUS2

CURRENT APPLICATION NUMBER: US/10/953,349

CURRENT FILING DATE: 2004-09-30

NUMBER OF SEQ ID NOS: 40252

SOFTWARE: Patentin version 3.3
                                                                                                                                              SOFTWARE: PatentIn version 3.3
SEQ ID NO 20639
LENGTH: 410
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Publication No. US20060107345A1
GENERAL INFORMATION:
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LENGTH: 409
TYPE: PRT
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TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-1579PUS2
CURRENT APPLICATION NUMBER: US/10/953,349
CURRENT FILING DATE: 2004-09-30
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SOFTWARE: PatentIn version 3.2
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TYPE: PRT
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Pred. No. 9
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                                                                                                                                                   Sequence 13572, Application US/10953349 Publication No. US20060107345A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: ALEXANDROV, NICKOlai et al.
APPLICANT: ALEXANDROV, NICKOLAI et al.
TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-1579PUS2
CURRENT APPLICATION NUMBER: US/10/953,349
CURRENT FILING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2638
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TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-1579PUS2
CURRENT APPLICATION NUMBER: US/10/953,349
CURRENT FILING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: Patentin version 3.3
SEQ ID NO 13573
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Best Local :
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              APPLICANT: ALEXANDROY, Nickolai et al.
TITLE OF INVENTION: SEQUENCE-DETERMINED DI
TITLE OF INVENTION: SECONDED THERBY
FILE REFERENCE: 2750-1579PUS2
CURRENT FALLING DATE: 2004-09-30
CURRENT FILLING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: PatentIn version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Glycine max
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TYPE: PRT
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Pred. No. 9
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                                                                                                                  DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
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FILE REFERENCE: P026927WO
CURRENT APPLICATION NUMBER: US/10/471,571A
CURRENT FILING DATE: 2003-09-12
PRIOR APPLICATION NUMBER: GB-0107661.1
PRIOR FILING DATE: 2001-03-27
NUMBER OF EGO ID NOS: 5642
SOFTWARE: SeqWin99, version 1.03
SEQ ID NO 180
LENGTH: 290
TYPE: PRT
                                                                                                                   ; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1). (290)
; OTHER INFORMATION: hypothetical protein
US-10-471-571A-180
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US-10-471-571A-180
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US-10-953-349-20637
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                                       Query Match
Best Local Similarity
7; Conserva
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US-10-953-349-20637
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 180, Application US/10471571A
Publication No. US20060115490A1
GENERAL INFORMATION:
APPLICANT: CHIRON SPA
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CURRENT FILING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: PatentIn version 3.3
SEQ ID NO 20637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20637, Application US/10953349
Publication No. US20060107345A1
GENERAL INFORMATION:
APPLICANT: ALEXANDROV, Nickolai et al.
TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-1579PUS2
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LENGTH: 472
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TYPE: PRT
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TYPE: PRT
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Local Similarity 46.2%;
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424 IQLGRGLDIGEPN 436
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1 SKLSMGSGLNLSEPN 15
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                                                       Conservative
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46.7%;
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Pred. No. 9.
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Pred. No. 11;
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Pred. No. 11;
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FILE REFERENCE: H1-A0106

CURRENT APPLICATION NUMBER: US/11/293,697

CURRENT FILING DATE: 2005-12-05

PRIOR APPLICATION NUMBER: US/10/108,260

PRIOR FILING DATE: 2002-03-28

NUMBER OF SEQ ID NOS: 5458

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 4653

LENGTH: 208
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Search completed: June 13, 2006, 04:56:53 Job time: 6.07353 secs
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CURRENT FILING DATE: 2004-09-30
NUMBER OF SEQ ID NOS: 40252
SOFTWARE: PatentIn version 3.3
SEQ ID NO 3265
LENGTH: 275
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                 Sequence 3265, Application US/10953349
Publication No. US20060107345A1
GENERAL INFORMATION:
APPLICANT: ALEXANDROV, Nickolai et al.
TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
TITLE OF INVENTION: ENCONDED THERBY
FILE REFERENCE: 2750-1579PUS2
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APPLICANT: HELIX RESEARCH INSTITUTE
TITLE OF INVENTION: Novel full length cDNA
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Pred. No.
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1: geneseqp198
2: geneseqp199
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74
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       SKLSMGSGLNLSEPN 15
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Biocceleration Ltd
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Adv23202
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Abj08961
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Adk39233
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Adr15909 Transferr
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HBV immun
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antibody; carbohydrate-deficient transferrin; CDT; non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human.

Human CDT peptide fragment

non-glycosylated

ADG46077;

25-MAR-2004

(first entry)

ADG46077 standard; peptide;

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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
27	27	28	28	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	30	30
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AAY54711	AAY54710	ADV70479	ABR31410	ABR30754	ABR38454	ABR38289	ABR38381	ABR31578	ABR30689	ADW93469	ADL21451	ABR30870	ABR30379	ABR31569	ABR30664	ABR30735	ABR31106	ABR31310	AAG78238	ADZ07250	ADZ06623
Aay54711	Aay54710	Adv70479	Abr31410	Abr30754	Abr38454	Abr38289	Abr38381	Abr31578	Abr30689	Adw93469	Ad121451	Abr30870	Abr30379	Abr31569	Abr30664	Abr30735	Abr31106	Abr31310	Aag78238	Adz07250	A0206623
Human sub	Human sub	Moraxella	Human can	SARS coro	125P5C8 p	Human can	Human hex	Hepatitis	нерастств												

## ALIGNMENTS

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RESULT 1
ADG46077
ID 4DG4
XX ADG4
XX ADG1
XX A
This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences VVARSWGKEDLIWELL, TYEDSIAKINNGRADAMSLDGGF, SKLSNGSGLNLSEDN and YEKYLGEBYWKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention. The antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 4; SEQ ID NO 3; 21pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   need for immobilization.
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RESULT 2
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ID ADR15909
ID ADR15909
ID ADR11
XX ADR1
XX ADR1
XX ADR1
XX YOU
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XX O6-F
PF 06-F
PX O6-F
PX WPI;
XX D186
CC Cont
CC Cont
CC Cont
CC Geot

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Matches 15
                                                                                   The present invention describes an assay for a protein having at least two isoforms with different glycosylation patterns. The assay involves contacting a sample containing the protein with a proteolytic enzyme, followed by detecting the content or relative content of at least one peptide fragment produced by proteolysis. Also described is a kit for the assay method comprising the proteolytic enzyme and a substrate bound specific binding partner (S1) for at least 2 of the isoforms of the proteins. The method can be used for assaying isoforms of proteins according to their glycosylation pattern to determine their concentration or relative concentration in the sample or material (e.g. blood). The method avoids use of antibodies for distinguishing between glycosylated isoforms of the proteins. The present sequence represents a transferrin apptide fragment which is used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              production of antibodies that specifically bind CDT from the aqueous phase. The antibodies are useful for diagnosis of alcoholism, CDT, which lacks glycosylation at Asn413 and/or Asn 611, is present only in alcoholics. The antibodies allow direct detection of CDT in solution, eliminating the need for immobilising it on a solid phase (as required when using known antibodies). ADG46075-ADG46094 represent CDT peptide fragments used in the method of the invention.
   Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 15; 30pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Assay for differentiating protein isoforms to determine their concentrations in sample e.g. blood, involves contacting the sample with proteolytic enzyme to produce peptide fragment by proteolysis followed by
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                                                                     nvention.
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tive 0;
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Pred. No.
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4e-06;
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Query Match Best Local Similarity

74.3%; 84.6%;

Score Pred.

55; No. 0 DB 8;

Length 15

RESULT 4
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ID ADS1
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ADS13393 standard; peptide; 15

ADS13393;

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                                                                                                                                                       The present invention describes an assay for a protein having at least two isoforms with different glycosylation patterns. The assay involves contacting a sample containing the protein with a proteolytic enzyme, followed by detecting the content or relative content of at least one peptide fragment produced by proteolysis. Also described is a kit for the assay method comprising the proteolytic enzyme and a substrate bound specific binding partner (S1) for at least 2 of the isoforms of the proteins. The method can be used for assaying isoforms of proteins according to their glycosylation pattern to determine their concentration or relative concentration in the sample or material (e.g. blood). The method avoids use of antibodies for distinguishing between glycosylated isoforms of the proteins. The present sequence represents a transferrin peptide fragment which is used in the exemplification of the present
                                                                                                               Sequence 15 AA;
                                                                                                                                                                                                                                                                                                                                                                  Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                         Assay for differentiating protein isoforms to determine their concentrations in sample e.g. blood, involves contacting the sample with proteolytic enzyme to produce peptide fragment by proteolysis followed by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-625547/60
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                                                                                                                                               invention.
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                                                                    Local
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                                                                       Similarity
                           LSMGSGLNLSEPN 15
LCMGSGLNLCEPN 13
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                                                                                                                                                                                                                                                                                                                                                                  Page 17; 30pp; English
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel isolated marker for rheumatoid arthritis selected from one of many (around 400) markers defined in the specification. Rheumatoid arthritis is a chronic inflammatory disorder of the small joints which is estimated to affect 2.1 million people in the united States alone. Current approaches to treat the disease include the use of non-steroidal antiinflammatory drugs (NSAIDS), which may reduce pain, swelling and inflammation, and disease-modifying anti-rheumatic drugs (DMARDS), which act to slow the progression of the disease and avoid further joint injury. These drugs are associated with a number of serious side effects and the search for improved therapeutics is a subject of activity and may be useful in preparing a composition for diagnosing or treating rheumatoid arthritis. The current sequence is that of a human rheumatoid arthritis marker peptide of the invention.
                                                                                                                                                                                                                                                                                           Human rheumatoid arthritis marker peptide - SEQ ID 180.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15
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   15-MAR-2004; 2004WO-US007880
                                                            30-SEP-2004.
                                                                                                                                                                                                                                    rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                        16-DEC-2004
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84.6%;
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Pred. No. 0.
                                                                                                                                                                                                                                    antiinflammtory; antiarthritic
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel isolated marker for rheumatoid arthritis selected from one of many (around 400) markers defined in the specification. Rheumatoid arthritis is a chronic inflammatory disorder of the small joints which is estimated to affect 2.1 million people in the use of non-steroidal antiinflammatory drugs (NSAIDS), which may reduce pain, swelling and inflammation, and disease-modifying anti-rheumatic drugs (DMARDS), which act to slow the progression of the disease and avoid further joint injury. These drugs are associated with a number of serious side effects and the search for improved therapeutics is a subject of active research. The marker of the invention demonstrates antiarthritic activity and may be useful in preparing a composition for diagnosing or treating rheumatoid arthritis. The current sequence is that of a human rheumatoid arthritis marker peptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15
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                                                                                                                                                                                                                    23-DEC-2004.
                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                        ADV70473 standard; peptide; 15 AA
                  uptake.
                            Transferrin-binding molecules useful for eliciting antibodies to bacterial transferrin
                                                                        WPI; 2005-038740/04
                                                                                                    Schryvers AB
                                                                                                                                                           31-JAN-2003; 2003US-0444113P
                                                                                                                                                                                                                                                US2004258695-A1
                                                                                                                                                                                                                                                                                                        neuroprotective;
                                                                                                                                                                                                                                                                                                                       bacterial infection; antibacterial; bacterial meningitis; antibacterial;
                                                                                                                                                                                                                                                                                                                                                 Human transferrin protein C-lobe region -
                                                                                                                                                                                                                                                                                                                                                                             10-MAR-2005 (first entry)
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                                                                                                                                 (SCHR/) SCHRYVERS A
                                                                                                                                                                                      30-JAN-2004; 2004US-00769514
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                                                                                                                                                                                                                                                                                                        otitis media; auditory; transferrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74.3%;
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Pred. No. 0.01;
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Claim 5; SEQ ID NO 10; 27pp; English.

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Best Local S
Matches 11
                                                                                                                                                                                                                                                                                             The invention comprises a molecule (e.g. peptide) which is capable of: binding to a region of a transferrin protein that is recognized by a bacterial transferrin binding protein; and eliciting an antibody to the bacterial transferrin binding protein. The transferrin binding molecule of the invention is useful for preventing and treating bacterial infections (e.g. bacterial meningitis and otitis media). The present amino acid sequence represents a peptide that is bound by transferrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention comprises a molecule (e.g. peptide) which is capable of: binding to a region of a transferrin protein that is recognized by a bacterial transferrin binding protein; and eliciting an antibody to the bacterial transferrin binding protein. The transferrin binding molecule of the invention is useful for preventing and treating bacterial infections (e.g. bacterial meningitis and outlis media). The present amino acid sequence represents a region of the human transferrin protein that is recognized by a bacterial transferrin binding protein.
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                                                                                                                                                                                                             Sequence 15 AA;
                                                                                                                                                                                                                                                                   binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                uptake.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2005-038740/04.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Transferrin binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADV70505;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADV70505 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bacterial infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-MAR-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SCHR/) SCHRYVERS A B.
                                                                                   11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 LSMGSGLNLSEPN 15
                                                                                                                   Similarity
                                                                                                                                                                                                                                                                   protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                         LSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LCMGSGLNLCEPN 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 42; 27pp; English.
                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       otitis
                                                                                                                74.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein B-binding peptide -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               74.3%;
84.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antibacterial; bacterial meningitis; antibacterial; tis media; auditory; transferrin binding protein B.
                                                                                   Score 55; DB
Pred. No. 0.01
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15
                                                                                   <u>;</u>
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Pred. No. 0.01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                DB 9;
                                                                                   <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ک
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                                                                                                                                            Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID
                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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                                                                                   Gaps
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                                                                                      0
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RESULT 9
ADV23202
ID ADV2
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AC ADV2
AC ADV2
AC ADV2
XX
DT 10-M
XX
DE HBV
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                                                                                                                                                                      밁
                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                      The invention relates to a novel method for analyzing a mixture of proteins. The method involves selecting sets of peptides from several peptides, sequencing one or more portions of the peptides in two or more sets of peptides, to produce a data set, and determining the likelihood of the presence of two or more proteins in the mixture of proteins based on two or more data sets. The invention further comprises an article of manufacture comprising a computer-readable media with computer-readable instructions for carrying out the method. The method is useful for analyzing a mixture of proteins. The method is useful for carrying out the method is useful for soreening and characterization of protein mixtures. This sequence represents a human serum albumin (HSA) peptide fragment used in the novel protein analysis
                                            10-MAR-2005
                                                                      ADV23202;
                                                                                                                                                                                                                                                                                    Sequence 15 AA;
                                                                                                                                                                                                                                                                                                              method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 4; SEQ ID NO 82; 140pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analyzing mixture of proteins by sequencing portions of peptides in two or more sets of peptides from several peptides, to produce data set, determining likelihood of presence of proteins in mixture of proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2005-162781/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Regnier FE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-JUL-2003; 2003US-0490149P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein purification; chromatography; screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human serum albumin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-APR-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADX17184;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADX17184 standard; peptide; 15
                                                                                                ADV23202 standard; peptide; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            based on data sets.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-JUL-2004; 2004WO-US023908
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BEYO-) BEYOND GENOMICS
                                                                                                                                                                                                                                           Local
                                                                                                                                                                                                                             11;
                                                                                                                                                                                         3 LSMGSGLNLSEPN 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 _
                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LCMGSGINLCEPN
                                                                                                                                                                      LCMGSGLNLCEPN 13
                                                                                                                                                                                                                                                                                                                the invention.
                                                                                                                                                                                                                             Conservative
                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ademec J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                           74.3%;
84.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HSA) peptide fragment, SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zhang X;
                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                           Score 55;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                           0.01;
                                                                                                                                                                                                                                                        B
                                                                                                                                                                                                                                                        9;
                                                                                                                                                                                                                                                         Length 15;
                                                                                                                                                                                                                             <u>..</u>
                                                                                                                                                                                                                             Gaps
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HBV immunogenic peptide #3

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Query Match
Best Local Similarity
""" Conserv
                                                                                                                                                                       Competities above and thus presents the peptides, a population of such collection antigen-presenting cells, a process for producing antigen-presenting cells for modulating an immune response to a polypeptide of interest, a composition antigen-specific lymphocytes, a composition of comprising at least one set of the peptides (and a carrier and/or cells for modulating antigen-presenting cells interest comprising administering to a patient in need at least one set of interest comprising administering to a patient in need at least one set of the peptides, a method for treatment and/or prophylaxis of a disease or condition associated with the presence of a polypeptide of interest and a composition of matter for modulating an immune response in a composition of matter for modulating an immune response in a composition of matter for modulating an immune response in a composition of matter for modulating an immune response in a composition or matter for modulating an immune response in a composition or matter for modulating an immune response in a composition or matter for modulating an immune response in a composition or matter for modulating an immune response in a composition or matter for modulating or a cancer, and produced by a pathogenic organism or a cancer, and produced by a produced by a cancer selected from melanoma, lung cancer, composition as produced by a cancer selected from melanoma, lung cancer, concert, stomethous post transplant concert, produced produc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  preparation of a medicament for modulating an immune response, where individual peptides of a respective set comprise different portions of an amino acid sequence corresponding to a single polypeptide of interest and display partial sequence identity or similarity to at least one other peptide of the same set of peptides (i.e. they are overlapping). Also included are an antigen-presenting cell which has been contacted with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vaccine; virucide; antigen; autoimmune disease; infection; immune modulation; cancer; neoplasse; cytostatic; melanoma; lung tumor; breast tumor; uterine cervix tumor; prostatic cancer; colon tumor; pancreas tumor; stomach tumor; bladder tumor; kidney tumor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Use of at least one set of peptides in the preparation of a medicament for modulating an immune response, and for treating cancer or yeast, viral, bacterial, protozoal and mycoplasma infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 1622; 645pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-JUN-2003; 2003AU-00902875.
25-MAR-2004; 2004AU-00901589.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis B virus.
                                                                                                                Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to the use of at least one set of peptides in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUN-2004; 2004WO-AU000775
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                                                                                                                A
                    Conservative
                                          47.3%;
70.0%;
                    Score 35; DB Pred. No. 41; O; Mismatches
                                     DB
41;
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                      ω
                                                                   Length 15;
                      Indels
                      0
                      Gaps
                      0,
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6 GSGLNLSEPN 15

HBV immunogenic peptide #2

10-MAR-2005

(first entry)

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RESULT 10
AAY70486
ID AAY70406
XX AAY70
XX AAY70
XX AAY70
XX AAY70
DT 04-JI
XX Humma
XW Humma
XW Skir
XX Skir
XX Skir
XX AAY10
PP 07.
XX O7.
PP 07.
XX O7.
PP A (G
XX PP A (G
XX
                                                                                                                                                                                                     RESULT 11
ADV23201
BXGXAXU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is a synthesised peptide of human prothrombin kringle-2 protein which is derived from human plasma prothrombin. Peptides were synthesised having amino acid sequences in order from N-terminal sequence of prothrombin kringle-2 by overlapping 2-5 amino acids of both N-terminal and C-terminal of peptides. These peptides were purified by high performance liquid chromatography (HPLC). Kringle domains from prothrombin have anti-endothelial cell proliferation and anti-tumour activities. These inhibit angiogenesis which is involved in tumour growth. They are also useful for the treatment of cancer, e.g. skin, laryngeal, uterine, colon, lung and bone marrow cancer. The human prothrombin kringle-2 significantly suppresses tumour growth in vivo
                                                                                                                                                                      ADV23201 standard; peptide; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human prothrombin kringle-1 and kringle-2 polypeptides that inhibit angiogenesis, useful for treating cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human prothrombin kringle-2; prothrombin; kringle domain; cancer therapy; anti-endothelial cell proliferation; anti-tumour; angiogenesis; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAY70486;
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                                                                                                                    ADV23201;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 7; Page 19; 43pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rhim TY,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        anti-angiogenic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthesised peptide-1 from human prothrombin kringle-2 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-JUL-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (KIMS/) KIM S S. (GENO-) GENOTECH CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-MAR-2000
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                                                                                                                                                                                                                                                                                                                                SEGSSVNLSPP 11
                                                                                                                                                                                                                                                                                                                                                                                         SMGSGLNLSEP 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Park CS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 33; DB 3; Pred. No. 95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  B
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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Competition of a medicament for modulating an immune response, where corresponding to a single polypeptide of interest and cod splay partial sequence identity or similarity to at least one other concluded are an antigen-presenting cell which has been concacted with the peptides of included are an antigen-presenting cell which has been concacted with the comprising antigen-presenting cells, a process for producing antigen-presenting cell which has been concacted with the comprising at least one set of the peptides, a population of such comprising at least one set of the peptides (and a carrier and/or comprising at least one set of the peptides (and a carrier and/or producing antigen-presenting cells, a process for producing antigen-presenting comprising administering to a patient in need at least one set of the peptides (and a carrier and/or prophylaxis of a disease cor condition associated with the presence of a polypeptide of interest composition of matter for modulating an immune response to a polypeptide of interest condition associated with the presence of a polypeptide of interest condition associated with the presence of a polypeptide of interest condition associated with the presence of a polypeptide of interest condition associated polypeptide that is a polypeptide of pathogenic organism selected from yeast, viruses, bacteria, helminths, companies of a polypeptide of interest condition associated polypeptide of interest. Companies and mycoplasmas. The disease or condition-associated years, prostate cancer, colon cancer, pancreatic companies, pancreatic condition associated with an antigen-presenting cells or their precursors are useful in the presence of a set of overlanding and produced with an antigen that corresponds to the target antigen to express a processed or modified form of the antigen that the presence is one of a set of overlanding between the presence of condition as described from a Henaltiis and the present antigen to the subject's immune system. The presenting condition is a manufacent i
Query Match
Best Local S
Matches 8
                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of at least one set of peptides in the preparation of a medicame for modulating an immune response, and for treating cancer or yeast, viral, bacterial, protozoal and mycoplasma infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004108753-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vaccine; virucide; antigen; autoimmune disease; infection; immune modulation; cancer; neoplasm; cytostatic; melanoma; lung tumor; breast tumor; uterine cervix tumor; prostatic cancer; colon tumor; pancreas tumor; stomach tumor; bladder tumor; kidney tumor; hodgkin's lymphoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to the use of at least one set of peptides in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; SEQ ID NO 1621; 645pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2005-031657/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUN-2003;
25-MAR-2004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-JUN-2004; 2004WO-AU000775.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hepatitis B virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYME ) UNIV MELBOURNE
                    Local Similarity
                                                                                                                                                      of a set
                                                                                   15
                                                                                   A
                                                                                                                                                  of overlapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2003AU-00902875.
2004AU-00901589.
                    44.6%;
                                                                                                                                               immunogenic peptides derived from a Hepatitis
                    Score 33;
Pred. No.
                                          DB 9;
                                        Length 15;
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Gaps
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RESULT 12
AAR62914
ID AAR62914
ID AAR62914
AC AAR62
AC AA
AAR94866
ID AAR9
XX AAR9
AC AAR9
XT 11-N
XX DT 11-N
XX Pept
XX Hsp;
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                                                                                                                                                                                                                                                                                                    RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antibody production against allergenic antigen (Ag) is specifically suppressed by treatment with the junctional segment of the alpha and/or beta chain of the Ag receptor of suppressor T (Ts) cells (TCR) induced by tolerogenic Ag-PBG conjugates. Induction of antigen-specific suppression by treatment of mice with TCR alpha-chain peptides was demonstrated using the peptides given in AAR62912-17. The peptides of AAR62914 corresponds to the J-alpha region of the CDR3 segment of the alpha chain of ovalbumin-specific Ts cells. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            complementarity determining region; immunosuppressive; antibody engineering; suppressor T-lymphocyte; Ts; ovamonoclonal antibody; myeloma; IgG.
                                                        Peptide from library spanning whole of hsp65
                                                                                                                      11-NOV-1996
                                                                                                                                                                                                                                      AAR94866 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 44; 78pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic peptide(s) for effecting immuno:therapy - have an amino acid sequence comprising a portion of the CDR3 region of a I-cell receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1994-358193/44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-APR-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9425489-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Allergen; immunotherapy; T-cell receptor; TCR; CDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    V-alpha chain CDR3 J-alpha region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-2003
12-JUN-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYMA-) UNIV MANITOBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 SKLSMGSGLNLS 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N
                                                                                                                                                                                                                                                                                                                                                                                           AKLTFGKGTKLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SKLSMGSGLNLSEP 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SKPRKGMGTNLSVP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ss,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AĄ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (revised)
(first entry)
                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93GB-00008581
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           40.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 30;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 15
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Hsp; heat shock protein; Mycobacterium bovis; microbial; diagnosis;

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RESULT 14
AAW43544
ID AAW43
XX AAW43
AC AAW44
AC
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR94773-R94878 are overlapping peptides of a library spanning the whole of microbial hsp65 (heat shock protein 65). Eleven antigens were prepared from the library and used to immunise mice, after 10 days the mice received injections of pristane to induce arthritis and the animals examined for incidence of arthritis. A preferred anti-arthritic peptide was found to correspond to residues 21-31 of full length hsp65 (see AAR94772). Peptides conty. this sequence are used in the diagnosis, treatment and prophylaxis (may be used in a vaccine) of autoimmune diseases such as rheumatoid arthritis
                                                                                                                                                                                                                                                                                                                                                                          Heat shock protein; hsp58; autoimmune disease; hsp65; vaccine; rheumatoid arthritis; antigen; infectious disease; prophylacti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-AUG-2003
08-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Polypeptide derived from bacterial heat shock protein 65 - 1 diagnosis, prophylaxis and treatment of auto-immune disease rheumatoid arthritis.
                                                                                                                                                             03-APR-1997.
                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-SEP-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       prophylaxis.
                                                     27-SEP-1995;
                                                                                                       26-SEP-1996;
                                                                                                                                                                                                                  WO9711966-A1
                                                                                                                                                                                                                                                                     Mycobacteriaceae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mycobacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW43544;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAW43544 standard; peptide; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Fig 1; 88pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Thompson SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (PEPT-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9610039-A1
(PEPT-) PEPTIDE THERAPEUTIC LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         вp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (revised)
(first entry)
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                                                     95GB-00019737.
                                                                                                       96WO-GB002382
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                                                                                                                                                                                                                                                                                                                                                    arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         hsp68 derived peptide (group 10 #4).
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                                                                                                                                                                                                                                                                                                                                                    antigen; infectious disease; prophylactic;
ritis; PIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 30; DB 2;
Pred. No. 3.3e+02;
1; Mismatches 1
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RESULT 15
ABJ08961
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the mycobacterial heat shock protein, hsp65 and is designed to study a novel method for the treatment of autoimmune disease e.g. rheumatoid arthritis. This fragment has been allocated as a group 10 peptide which is composed of the fragments found in AAW43541 to AAW43550. Mycobacterial hsp65 is known to be an immunodominant antigen in a number of infectious diseases and is linked to pristane induced arthritis (PIA) in vitro, however heat shock proteins and peptides derived from microbial sources may act as self antigens and thus have limited clinical use. The human hsp65 homologue, hsp58, or fragments of the hsp58 protein (see AAW14948-W14950) may be useful in the development of vaccines for prophylaxis or treatment of an autoimmune disease such as rheumatoid arthritis. (Updated on 27-AUG-2003 to correct OS field.)
                                                                                                                                   Sette A,
Celis E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15
                                                  Vaccine composition for treating or preventing hepatitis B vinfection, and/or for stimulating an immune response to HBV, HBV peptide epitope.
                                                                                                                                                                                                                                                08-SEP-2000; 2000WO-US024802
                                                                                                                                                                                                                                                                                                                                                                                                                                  14-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1997-212851/19.
                                                                                                           WPI; 2002-643192/69.
                                                                                                                                                                                                                    08-SEP-2000; 2000WO-US024802
                                                                                                                                                                                                                                                                                                       WO200219986-A1.
                                                                                                                                                                                                                                                                                                                                 Hepatitis B virus.
                                                                                                                                                                                                                                                                                                                                                             virucide; hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                           Hepatitis B virus; HBV;
                                                                                                                                                                                                                                                                                                                                                                                                     Hepatitis B virus epitope #3179.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABJ08961 standard; peptide; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This peptide is one of a library (see AAW43451-W43556) which represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 1c; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polypeptide(s) derived from microbial heat shock protein - useful for treatment of autoimmune disease esp. arthritis.
                                                                                                                                                                                                                                                                           14-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Thompson JS,
                                                                                                                                                                                         (EPIM-)
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The present invention relates to a composition comprising at least

Disclosure; Page 179;

228pp; English.

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Result
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## ALIGNMENTS

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R;Tjoelker, L.W.; Carlson, L.M.; Lee, K.; Lahti, J.; McCorr
Proc. Natl. Acad. Sci. U.S.A. 87, 7856-7860, 1990
A;Title: Evolutionary conservation of antigen recognition:
A;Reference number: A36198; MUID:91045896; PMID:2236002
                                                                                                                                                                                                                                                                                                            T-cell receptor beta chain J region - chicken (fragment)
C;Species: Gallus gallus (chicken)
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 21-Jul-2000
C;Accession: C36198
                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
C36198
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A;Title: The third subunit of desulfoviridin-type dissimilatory sulfite reductases A;Reference number: S21197; MUID:92209491; PMID:1555572
A;Accession: S21238
                                                                        A;Cross-references: UNIPARC:UPI000011511E; EMBL:M37799; NID:g212737; PIDN:AAA62754.1; C;Keywords: T-cell receptor
                                                                                                                     A; Molecule type: DNA
A; Residues: 1-15 < TJO>
                                                                                                                                                                                            A; Reference number: A; Accession: C36198
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A;Experimental source: strain Hildenborough
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                                                                                                                                                                A;Status: preliminary
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Pred. No. 1.8e+03;
2; Mismatches 4
     Score
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     21;
No.
     DB 2;
1.8e+03;
                                                                                                                                                                                                                                                                                        J.; McCormack, W.T.; Leiden, J.M.; Chen
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C;Species: Streptococcus oralis
C;Date: 29-Nov-1995 #sequence_revision 01-Aug-1997 #text_change 31-Dec-2004
C;Accession: S49409; S38211
R;Fenoll, A.; Munoz, R.; Garcia, E.; de la Campa, A.G.
Mol. Microbiol. 12, 587-598, 1994
A;Title: Molecular basis of the optochin-sensitive phenotype of pneumococcus: characteri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Reference number: S49398; MUID:95020593; A;Accession: S49409
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R;Casanova, J.L.; Martinon, F.; Gournier, H.; Barra, C.; Pannetier, C.; Regnault, R;Casanova, J.T., 811-820, 1993
J. Exp. Med. 177, 811-820, 1993
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A;Title: pj180, a novel recycling transmembrane glycoprotein with A;Reference number: A36315; MUID:90258846; PMID:2188094
A;Accession: A36315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recycling receptor p180 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 25-Jan-1991 #sequence_revision 25-Jan-1991 #text_change 30-Sep-1993
C;Accession: A36315
                   A; Molecule
                                 A; Status: preliminary
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C;Species: Mus musculus (house mouse)
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A;Molecule type: mRNA
A;Residues; 1-15 <CAS>
A;Cross-references: UNIPARC:UPI00001769BB; EMBL:X67978
A;Cross-references: Cycolytic T-lymphocyte, clone Cw3/A8
A;Experimental source: cycolytic T-lymphocyte, clone Cw3/A8
R;Casanova, J.L.; Martinon, F.; Gournier, H.; Barra, C.; Pannet
J. Exp. Med. 177, 811-820, 1993
A;Title: T cell receptor selection by and recognition of two cl
A;Reference number: PH1430; MUID:93171821; PMID:8436911
A;A;Ccossion: PH1442
A;A;Ccossion: PH1442
A;A;Cross-references: UNIPARC:UPI00001769BB
A;Cross-references: UNIPARC:UPI00001769BB
A;Cross-references: UNIPARC:UPI00001769BB
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Mus musculus (house mouse)
A;Variety: clone Cw3/A8; A1/74.1
C;Date: 11-Mar-1998 #sequence_revision 17-Apr-1998 #text_change 17-Mar-1999
C;Accession: S26527; pH1442
R;Casanova, J.L.; Cerottini, J.C.; Matthes, M.; Necker, A.; Gournier, H.; Bay. Med. 176, 439-447, 1992
A;Title: H-2-restricted Cytolytic T lymphocytes specific for HLA display T c A;Reference number: S26512; MUID:92364546; PMID:1380061
A;Accession: S26527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Binette, J.P.; Binette, M.B.
Scanning Microsc. 8, 233-239, 1994
A;Title: Sequencing of proteins extracted from stones.
A;Reference number: A56049; MUID:95215817; PMID:7701298
A;Accession: A56049
A;Accession: A56049
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S26527
T-cell receptor alpha chain V region (clone Cw3/A8, A3/74.1) - mouse (fragment)
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A;Experimental source: urinary tract and gallbladder stones
A;Note: the source is designated as Homo sapiens, however the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      urinary tract stone matrix protein, 40K - unidentified organism (fragment) C;Species: unidentified organism C;Date: 12-Apr-1995 #sequence_revision 12-Apr-1995 #text_change 20-Apr-2000 C;Accession: A56049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: protein
A; Residues: 1-15 <BIN>
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Pred. No. 2.7e+03;
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4.1e+03;
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Treell receptor alpha chain (F1) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0784
R;Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
A;Title: T cell receptor genes in a series of class I major histocompatibility complex-1 allelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          J. Exp. Med. 174, 1371-1383, 1991
A;Title: T cell receptor genes in a series of class I major histocompatibility complex-
allelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0754
A;Molecule type: mRNA
A;Residues: 1-15 <CAS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        T-cell receptor alpha chain (B28) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0775
R;Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eur. J. Biochem. 221, 1111-1116, 1994
A;Title: Identification of tissue-specific
A;Reference number: $43624; MUID:94237150;
A;Accession: $43634
A;Molecule type: protein
A;Residues: 1-15 <FRE>
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               A;Reference number: PH0746;
A;Accession: PH0784
A;Molecule type: mRNA
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C;Keywords: cardi
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Pred. No. 4.1e+03;
0; Mismatches 2;
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Pred. No. 4.1e+03;
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interphotoreceptor retinoid-binding protein - ha N,Alternate names: interstitial retinol-binding c,Species: Cricetinae gen. sp. (hamster) C;Date: 21-May-198 #sequence_revision 21-May-19 C;Accession: G24417 
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A;Residues: 1-15 <CAS>
A;Cross-references: UNIPARC:UPI0000115FAA;
A;Experimental source: T lymphocyte
C;Keywords: T-cell receptor
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A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0751
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Roghani, M.; Hossenlopp, P.; Lepage, P.; Balland, A.; Binoux, FEBS Lett. 255, 253-258, 1989
A;Title: Isolation from human cerebrospinal fluid of a new insu. A;Reference number: S05699; MUID:90005986; PMID:2551732
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S05699
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PH0751
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C;Accession: S05699
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C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 05-Nov-1999
C;Accession: PH0751
                                                                                                                                                                                                   G24417
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RESULT 15
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unpublished results, cited by Blombaeck, B., and Blombaeck, M., in Chemota
A;Reference number: A29501
A;Accession: F29501
A;Status: preliminary
A;Molecule type: protein
A;Molecule type: protein
A;Residues: 1-15 - GLO>
A;Cross-references: UNIPROT:Q7M318; UNIPARC:UPI00001777D7
A;Csuperfamily: fibrinogen alpha chain; fibrinogen disulfide ring homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                           fibrinopeptide A - wombat (c;Specites: Vombatidae gen. sp. (wombat) (c;Specites: Vombatidae gen. sp. (wombat) (c;Date: 21-Nov-1987 #sequence_revision 08-Jun-1990 #text_change 09-Jul-2004 (c;Accession: F29501 R;Blombaeck, M.; Hann, C.
Search completed: June 13, 2006, 02:47:43 Job time: 39 secs
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C;Superfamily: trypsin; trypsin homology
C;Keywords: hydrolase; serine proteinase
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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r; PRT; 15 AA.  nto UniProtKB/TrEMBL.  nion 1.  nomolog (Fragment).  homolog (Fragment) or plant  homolog (Fragment) or plant  homolog (Fragment) or plant  homolog (Fragment) or plant  homolog (Fragment)  h	; Score 21; DB 1; ; Pred. No. 1.7e+04 3; Mismatches	Consortium, see htt tive Commons Attribu rive Commons Attribu commons Attribu sequencing. 65 kDa cell wall /FTId-PRO_0000079 ; DA9E7BDBD9E7AD2C	LULAR LOCATION. 4848; DOI=10.1074/ Gilroy J.S., Gerr protein sequencin protein wall p 48(1997). creted; cell wall.	niProtKB/Swiss-1. ment). o). ptophyta; Embry eudicotyledons; Solanaceae; Sol	ALIGNMENTS PRT; 15 AA.	IRBP CRISP RL13Ā SPIOL Q9UCYĪ HUMAN QBNON6 BRAFFL Q9RAM7 BACFI Q9RAM7 BCFI Q9RAM7 KLEOX CWP18 PHAVU DNAK COMAC HLOB HALAU LECAĀ PSOSC OBÞA MAMBR UC25 MAIZE VSP3 AGKHP
t). phyta; Tracheophyta; core eudicotyledons;	; ; 3; Indels 0; Gaps 0;	://www.uniprot.org/term ion-NoDerive License		Prot.  prot.  prot.  procheofita;  pracheophyta;  core eudicotyledons;  anum; Lycopersicon.		P12665 cricetidae P82454 spinacia ol O9ucyl homo sapien Q8n0n6 branchiosto Q9r4m7 bacillus fi O9x635 escherichia Q9x637 klebsiella P80777 phaseolus v P83709 comamonas a P83706 halocynthia P22583 psophocarpu P81285 mamestra br P80631 zea mays (m

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01-JAN-1990, integrated into UniProtKB/Swiss-Prot.
01-JAN-1990, sequence version 1.
07-FEB-2006, entry version 29.
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               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                           Syncerus caffer (Cape buffalo).
                                                            Fibrinogen alpha chain Name=FGA;
                                                                                                                                                                                                                                                                                                                                                                                                  Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                J. Med. Microbiol. 54:833-841(2005).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PubMed=16091434; DOI=10.1099/jmm.0.45956-0; Vitorino L., de Sousa R., Bacellar F., Ze-Ze L.; "Characterization of a tandem repeat polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-SEP-2005, integrated into UniProtKB/TrEMBL. 27-SEP-2005, sequence version 1. 07-FEB-2006, entry version 3.
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Q3ZJF3;
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Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
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Rickettsiaceae; Rickettsieae; Rickettsia; spotted fever group
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l; Mismatches
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Pred. No. 1.7e+04;
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               cetartiodactyla; Ruminantia;
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RESULT 5
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ID Q73362 N
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CONTRAIN-74-OR23-1A / FGSC 987;

XX MEDLINE-22598136; PubMed=127712197; DOI=10.1038/nature01554;

XX Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,

XX Galagan J.E., Calvo S.E., Borkovich K.A., Selker B.U., Read N.D.,

XX Galagan J.E., Calvo S.E., Borkovich K.A., Selker B.U., Read N.D.,

XX Galagan J.E., Calvo S.E., Borkovich K.A., Selker B.U., Rehman B.,

XX Galagan J.E., Calvo S.E., Borkovich K.A., Selker B.U., Rehman B.,

XX Galagan J.E., Calvo S.E., Neilsen C.B., Butler J., Endrizzi M.,

XX Galagan J.E., Calvo S.E., Neilsen D., Kinsey J.A., Braun E.L.,

XX Galagan J.E., Selitrennikoff C.P., Kinsey J.A., Braun E.L.,

XX Merner-Mashburne M., Selitrennikoff C.P., Kinsey J.A., Braun E.L.,

XX Merner-Mashburne M., Selitrennikoff C.P., Kinsey J.A., Braun E.L.,

XX Merner-Mashburne M., Selitrennikoff C.P., Kinsey J.A., Nathen C.,

XX Marcotte E., Greenberg D., Roy A., Naylor J.,

XX Marcotte E., Greenberg D., Roy A., Foley K., Naylor J.,

XX Mauceli E., Bielke C., Rudd S., Frishman D., Krystofova S.,

XX Macino G., Catcheside D.E.A., Li W., Pratt R. J., Osmani S.A.,

XX Macino G., Catcheside D.E.A., Li W., Pratt R. J., Osmani S.A.,

XX Macino G., Catcheside D.E.A., Li W., Pratt R. J., Osmani S.A.,

XX Yarden O., Plamann M., Seiler S., Dunlap J.C., Radford A., Aramayo R.,
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Neurospora crassa.
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-DEC-2003, integrated into UniProtKB/TrEMBL 15-DEC-2003, sequence version 1. 07-FBB-2006, entry version 8.
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Arch. Biochem. Biophys. 118:456-467(1967).
-!- FUNCTION: Fibrinogen has a double function: yielding monomers polymerize into fibrin and acting as a cofactor in platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORFNames=NCU08588.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q7S362_NEUCR
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MEDLINE=67209145; PubMed=6033721;
Doolittle R.F., Schubert D., Schw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=5141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Predicted protein
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DOMAIN: A long coiled coil structure formed by 3 polypeptide
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SUBUNIT: Heterohexamer; disulfide linked. Contains 2 sets of 3 nonidentical chains (alpha, beta and gamma). The 2 heterotrimers are in head to head conformation with the N-termini in a small
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5; Conserva
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62.5%;
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/FTId=PRO_0000009041.
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Q798U8;
Q798U8;
Q79UL-2004, integrated into
Q5-UUL-2004, sequence version
Q7-FEB-2006, entry version 7
Adenosine triphosphatase (EC
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NUCLEOTIDE SEQUENCE.
MEDLINE=92020861; PubMed=1717978;
MEDLINE=92020861; PubMed=1717978;
Springer M.S., Davidson E.H., Britten R.J.;
Springer M.S., Davidson E.H., Britten R.J.;
Fretroviral-like element in a marine invertebrate.";
"Retroviral-like element in a marine invertebrate.";
                 Bacteria; Firmicutes;
Streptococcus.
NCBI_TaxID=1303;
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Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
Echinoidea; Euechinoidea; Echinacea; Temnopleuroida; Toxopneustidae;
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-i- CAUTION: The sequence shown here is derived EMBL/GenBank/DDBJ whole genome shotgun (WGS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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07-FEB-2006, entry version
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NCE 15 AA; 1753 MW; 44BAA4C25D52DĀ9A CRC64;
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Nature 273:113-120(1978).
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                                                                  MEDLINE=93021360; PubMed=1328671;
Ilyinskii P.O., Daniel M.D., Horve
"Genetic analysis of simian virus
macague monkeys.";
                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE-80024255; PubMed-226361; van Heuverswyn H., Fiers W.; "Nucleotide sequence of the Hind-C fragment of Simian Virus 40 DNA: "Nucleotide sequence of the Hind-C fragment wild-type virus and of comparison of the 5'-untranslated region of wild-type virus and of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=78159686; PubMed=205947;
Reddy V.B., Thimmappaya B., Daw R., Subr
Pan J., Ghosh P.K., Celma M.L., Weissman
"The genome of simian virus 40.";
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                                            J. Virol. 66:6353-6360(1992)
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GO:0042624; F:ATPase activity, uncoup
                                                                                                                                                                                                                                                                                                                    deletion mutants.";
J. Biochem. 100:51-60(1979)
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G., Ysebaert M.;
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RESULT 10
Q13377 HUMAN
ID Q1377;
AC Q1377;
DT 01-NOV-1996, integrated into UniProtKB/TrEMBL.
DT 01-FEB-2005, sequence version 3.
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-I- FUNCTION: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.
-I- CATALYTIC ACTIVITY: RX + glutathione = HX + R-S-glutathione.
-I- SUBUNIT: Monomer and homodimer.
-I- SUBUNIT: Monomer and homodimer.
-I- SUBUNIT: Monomer and homodimer.
-I- SUBUNIT: Monomer to the GST superfamily.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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07-FEB-2006, entry version 16.
Glutathione S-transferase (EC 2.5.1.18) (Fragment).
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GO; GO:0019028; C:viral capsid; IEA.
GO; GO:0005198; F:structural molecule activity; IEA.
Interpro; IPR001070; POlyoma_coat2.
Pfam; PF00761; POlyoma_coat2; 1.
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CHAIN 1 >15 Glutathion
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GO:0004364; F:glutathione transferase activity; NAS
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                                                                                                                                                                                                                                                                                                                                                                  Score 19.5; DB 1;
Pred. No. 3.2e+04;
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l; Mismatches
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Pred. No. 2.
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RESULT 11

Q86WB2 HUMAN
ID Q86WB2;
D7 01-JUN-2003, s
D7 01-JUN-2006, e
D8 Acetyl-CoA cax
GN Name-ACACA;
OS Homo sapiens (
OC Ewaryota; Meteo
OC Mammalia; Buth
OC Mammalia; Buth
OC MAMMalia; Suth
OC NCBI TaxID=96C
RN [1]
CR TISSUB-Testis;
RA Travers M.T.
RL Submitted (DEC
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                                                                                                                                                                                                                                                                                               EMBL; AJ534889; CAD59557.1; -; mRNA.
GO; GO:0003989; F:acetyl-CoA carboxylase activity; IEA
GO; GO:0016874; F:ligase activity; IEA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Travers M.T., Barber M.C.; Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Test1s;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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MEDLINE=9703253; PubMed=8875892; DOI=10.1007/8003359900246;
Prosser J. Inglis J.D., Condie A., Ma K., Kerr S., Thakrar
Taylor K., Cameron J.M., Cooke H.J.;
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Mammalia; Eutheria;
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                                                           l Similarity
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15 AA;
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15 AA; 1713 MW;
                                                                  Conservative
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                                                                                                                                                                                                    15
1753 MW;
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Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                  25.7%;
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66.7%;

    Mismatches

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                                                                                                  Score 19;
Pred. No.
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Pred. No. 3
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                                                                                                                                                                                                    56E3033C9FD5E6EA CRC64;
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                                                                                                  DB 2; 1
3.9e+04;
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                                                                                                                                 Length 15;
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RESULT

OPWTA3

ID W73

AC OSS

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DT 011

DT 011

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Q3ZJD3 RIC
Q3ZJD3 RIC
Q3ZJD
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Best Local S
Matches 4
Best Local Similarity
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13 PARAE
13 PARAE PRELIMINARY; PRT; 15 AA.
Q9WTA3;
Q9WTA3;
O1-NOV-1999, integrated into UniProtKB/TrEMBL.
                                                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=16091434; DOI=10.1099/jmm.0.45956-0;
Vitorino L., de Sousa R., Bacellar F., Ze-Z
"Characterization of a tandem repeat polymo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsieae; Rickettsia; spotted fever group NCBI_TaxID=786;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amorphophallus hirtus.
Plastid; Chloroplast.
Eukaryota; Viridiplantae;
                                                                                                                                                                                                                                                              Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chiang T.Y., Peng C.I.; Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Spermatophyta; Magnoliophyta; Liliopsida; Araceae; Aroideae; Thomsonieae; Amorphophallus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-NOV-1999, sequence version 07-FEB-2006, entry version 14.
                                                                                                                                                                                                                                                                                                                                                                            J. Med. Microbiol. 54:833-841(2005).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rickettsia akari.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DksA (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-FEB-2006,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-SEP-2005, sequence version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUCLEOTIDE SEQUENCE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GO:0009507; C:chloroplast;
                                                                                                                                                 AY820045; AAY40584.1; -; Genomic_DNA.
ER 15 15
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4; Conserv
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                                                                                                             ΑΑ,
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                                                                                                             1720 MW;
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66.7%;
25.7%;
80.0%;
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Score 19;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 19; DB 2; 1
Pred. No. 3.9e+04;
1; Mismatches 1
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                                                                                                                 28E145337A1304BE
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IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                       ., Ze-Ze L.;
polymorphism in Rickettsia
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                                       DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CRC64;
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                               Length 15;
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RESULT 14
Q3ZJD4_RICRH
ID Q3ZJD4_RICRH
AC Q3ZJD4;
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Q3ZJD5_9RICK
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Best Local S
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                                                                                                                                                                                                             PubMed=16091434; DOI=10.1099/jmm.0.45956-0;
Vitorino L., de Sousa R., Bacellar F., Ze-Ze L.;
"Characterization of a tandem repeat polymorphism in Rickettsia
                                                                                                                                                                                                                                                                                                                                                                                        Rickettsia aeschlimannii.
Bacteria; Proteobacteria; Alp
Rickettsiaceae; Rickettsieae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27-SEP-2005, integrated into Uni 27-SEP-2005, sequence version 1. 07-FEB-2006, entry version 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rickettsia rhipicephali.
Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales;
Rickettsiaceae; Rickettsieae; Rickettsia; spotted fever group.
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27-SEP-2005, sequence version 1.
07-FEB-2006, entry version 3.
SEQUENCE
                                                                                              Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=dksA
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Vitorino L., de Sousa R., Bacellar F., Ze-
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                                                EMBL; AY820043; AAY40582.1; -; Genomic_DNA
                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=45262;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DksA (Fragment).
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                           NON TER
                                                                                                                                                                       J. Med. Microbiol. 54:833-841(2005).
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15 AA;
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Pred. No.
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  28E145337A1755BE CRC64;
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Query Match 25.7%; Score 19; DB 2; Length 15;
Best Local Similarity 80.0%; Pred. No. 3.9e+04;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 KLSMG 6 | | | | |
Db 6 KLPMG 10

Search completed: June 13, 2006, 02:46:59

Job time: 293 secs
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Minimum DB seq length: 15 Maximum DB seq length: 15
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Maximum Match 100%
Listing first 45 summaries
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1: /EMC_Celerra_SID:
2: /EMC_Celerra_SID:
3: /EMC_Celerra_SID:
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Copyright (c) 1993 - 2006
/EMC_Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*
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/EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*
/EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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550 84, S	App	App	3, A)	, Apj	, Apj	App	App	App	, App	Appl	App	App	Ap	App	App	App	App	App	7.77

ALIGNMENTS

## APPLICANT: Chesnut, Robert APPLICANT: Epimmune Inc. TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions FILE REFERENCE: 2060,0060007 CURRENT APPLICATION NUMBER: US/09/239,043D CURRENT APPLICATION NUMBER: US 09/189,702 PRIOR APPLICATION NUMBER: US 09/189,702 PRIOR APPLICATION NUMBER: US 08/978,291 PRIOR APPLICATION NUMBER: US 08/978,291 PRIOR APPLICATION NUMBER: US 08/920,360 PRIOR APPLICATION NUMBER: US 60/013,363 PRIOR APPLICATION NUMBER: US 08/020,360 PRIOR FILING DATE: 1995-03-13 PRIOR APPLICATION NUMBER: US 08/020,360 PRIOR APPLICATION NUMBER: US 08/461,603 PRIOR APPLICATION NUMBER: US 08/461,603 PRIOR APPLICATION NUMBER: US 08/347,610 PRIOR APPLICATION NUMBER: US 08/347,610 PRIOR APPLICATION NUMBER: US 08/344,824 PRIOR APPLICATION NUMBER: US 08/344,824 PRIOR APPLICATION NUMBER: US 08/378,634 PRIOR APPLICATION NUMBER: US 08/278,634 PRIOR APPLICATION NUMBER: US 08/278,634 PRIOR APPLICATION NUMBER: US 08/278,634 PRIOR APPLICATION NUMBER: US 08/205,713 PRIOR APPLICATION NUMBER: US 08/197,484 ; ORGANISM: Orthohepadnaviridae hepatitis B virus US-09-239-043D-2101 RESULT 1 US-09-239-043D-2101 Remaining Prior Application data removed NUMBER OF SEQ ID NOS: 2579 SOFTWARE: PastSEQ for Windows Version 4.0 SEQ ID NO 2101 LENGTH: 15 Sequence 2101, Appli Patent No. 6689363 GENERAL INFORMATION: APPLICANT: APPLICANT: Sette, Alessandro APPLICANT: Sidney, John APPLICANT: Southwood, Scott APPLICANT: APPLICANT: APPLICANT: TYPE: PRT Southwood, Scott Vitiello, Maria A. Grey, Howard M. Livingston, Kubo, Ralph T. Application US/09239043D Esteban Brian D See File Wrapper or PALM

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US-09-255-501-97
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                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence: Synthetic US-09-255-501-97
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Best Local S
Matches 6
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APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: HUKANS AND METHODS FOR CONSTRUCTING, IDENTIFYING AND
TITLE OF INVENTION: HUKANS AND METHODS FOR CONSTRUCTING, IDENTIFYING AND
TITLE OF INVENTION: PRODUCING SUCH PROTEINS
FILE REFERENCE: GC527
CURRENT APPLICATION NUMBER: US/09/255,501
CURRENT FILING DATE: 1999-02-23
NUMBER OF SEQ ID NOS: 211
SOFTWARE: Patentin Ver. 2.1
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 97
LENGTH: 15
TYPE: PRT
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CURRENT FILING DATE: 1999-02-23
NUMBER OF SEQ ID NOS: 211
SOFTWARE: PATENTIN VEY: 2.1
SEQ ID NO 96
LENGTH: 15
                                                                 Query Match
Best Local Similarity
Matches 5; Conserv
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APPLICANT: Harding, Fiona
TITLE OF INVENTION: MUTANT PROTEINS HAVING LOWER ALLERGENIC RESPONSE IN
TITLE OF INVENTION: HUMANS AND METHODS FOR CONSTRUCTING, IDENTIFYING AND
TITLE OF INVENTION: PRODUCING SUCH PROTEINS
FILE REFERENCE: GC527
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ORGANISM: Artificial Sequence
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Similarity 75.0%;
6; Conservative
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ASLSLGSG 9
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Pred. No. 70;
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Pred. No. 2.4e+02;
2; Mismatches 1
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Pred. No. 2.4e+02;
2; Mismatches 1
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US-09-060-872A-96

i Sequence 96, Application US/09060872A

Sequence 96, Application US/09060872A

Patent No. 683550

GENERAL INFORMATION:
APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: MUTANT PROTEINS HAVING LOWER ALLERGENIC RESPONSE IN
TITLE OF INVENTION: HUMANS AND METHODS FOR CONSTRUCTING, IDENTIFYING AND
TITLE OF INVENTION: PRODUCING SUCH PROTEINS
FILE REFERENCE: GC527
CURRENT FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 211
SOFTMARE: Patentin Ver. 2.1
SEQ ID NO 96
LENGTH: 15
TYPE: PRT
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APPLICANT: Harding, Fiona
APPLICANT: Harding, Fiona
TITLE OF INVENTION: MUTANT PROTEINS HAVING LOWER ALLERGENIC RESPONSE IN
TITLE OF INVENTION: HUMANS AND METHODS FOR CONSTRUCTING, IDENTIFYING AN
TITLE OF INVENTION: PRODUCING SUCH PROTEINS
FILE REFERENCE: GC527
CURRENT APPLICATION NUMBER: US/09/060,872A
CURRENT FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 211
SOOTWARE: Patentin Ver. 2.1
SEQ ID NOS: 21
Sequence 96, Application US/09500135C Patent No. 6838269
GENERAL INFORMATION:
APPLICANT: Estell, David A.
APPLICANT: Harding, Fiona A.
TITLE OF INVENTION: PROTEINS PRODUCING TITLE OF INVENTION: METHODS OF MAKING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 97, Application US/09060872A Patent No. 6835550 GENERAL INFORMATION:
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Best Local :
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Matches 5; Conserv
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TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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Pred. No. 2.4e+02;
2; Mismatches 1
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Pred. No. 2.4e+02;
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    AN ALTERED IMMUNOGENIC AND USING THE SAME
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PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR FILING DATE: 198-04-15
NUMBER OF SEQ ID NOS: 236
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 97
LENGTH: 15
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Sequence 96, Application US/09768080
Patent No. 6897049
GENERAL INFORMATION:
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Best Local Similarity
"hes 5; Conserv?
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LENGTH: 15
TYPE: PRT
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APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: PROTEINS PRODUCING AN ALTERED IMMUNOGENIC RESPONSE AND
TITLE OF INVENTION: METHODS OF MAKING AND USING THE SAME
FILE REFERENCE: GC527C3
CURRENT APPLICATION NUMBER: US/09/768,080
CURRENT FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 09/677,822
PRIOR APPLICATION NUMBER: US 09/500,135
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CURRENT APPLICATION NUMBER: US/09/500,135C
CURRENT FILING DATE: 2000-02-08
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APPLICANT: Harding, Fiona A.

TITLE OF INVENTION: PROTEINS PRODUCING AN ALTERED IMMUNOGENIC RESPONSE AND TITLE OF INVENTION: METHODS, OF MAKING AND USING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 236
SOFTWARE: Patentin Ver. 2.1
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CURRENT APPLICATION NUMBER: US/09/500,135C
CURRENT FILING DATE: 2000-02-08
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Pred. No. 2.
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Pred. No. 2.4e+02;
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Sequence 96, Application US/09677822A
Patent NO. 6936249
GENERAL INFORMATION:
APPLICANT: Batcell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: WETHODS OF MAKING AN ALI
TITLE OF INVENTION WETHODS OF MAKING AND US
FILE REFERENCE: GC527C2
CURRENT FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US 09/500,135
PRIOR FILING DATE: 2000-02-08
PRIOR FILING DATE: 2000-02-08
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Best Local Similarity
Thes 5; Conserva
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US-09-677-822A-96
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Best Local Similarity
Matches 5; Conserv
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 97
LENGTH: 15
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TITLE OF INVENTION: PROTEINS PRODUCING AN ALTERED IMMUNOGENIC RESPONSE AND
TITLE OF INVENTION: METHODS OF MAKING AND USING THE SAME
FILE REFERENCE: GC527C3
CURRENT APPLICATION NUMBER: US/09/768,080
CURRENT FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 09/677,822
PRIOR FILING DATE: 2000-10-02
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: US 09/500,135
PRIOR APPLICATION NUMBER: US 09/500,872
PRIOR APPLICATION NUMBER: US 09/500,872
PRIOR PRIOR APPLICATION NUMBER: US 09/500,872
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APPLICATION NUMBER: US 09/060,872
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                                                                                                                                         PRODUCING AN ALTERED IMMUNOGENIC RESPONSE AND OF MAKING AND USING THE SAME
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FILE REFERENCE: GC527C2

CURRENT APPLICATION NUMBER: US/09/677,822A

CURRENT FILING DATE: 2000-10-02

PRIOR APPLICATION NUMBER: US 09/500,135

PRIOR FILING DATE: 2000-02-08

PRIOR PILING DATE: 1998-04-15

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEO ID NOS: 240

SOFTWARE: PATENTIN Ver. 2.1

SEQ ID NO 97

TYPE: DET
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NUMBER OF SEQ ID NOS: 240
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 96
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Best Local Similarity
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Patent No. 6936249
                                                                                                                                                                                                                                GENERAL INFORMATION:
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TITLE OF INVENTION: PROTEINS PRODUCING AN ALTERED IMMUNOGENIC RESPONSE AND
TITLE OF INVENTION: METHODS OF MAKING AND USING THE SAME
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ORGANISM: Artificial Sequence
FEATURE:
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ORGANISM: Artificial Sequence
FEATURE:
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                                                                                                      TITLE OF INVENTION: MODIFICATI
TITLE OF INVENTION: SYNTHESIS
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
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                                   1100 New York Avenue, N.W.
                                                                                                                                                                                           KEELING, PETER L.
KNIGHT, MARY E.
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                                                  CUSHMAN DARBY & CUSHMAN Intellectual Property Group of Pillsbury Madison & Sutro LLP
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62.5%;
                                                                                                                                       MODIFICATION OF STARCH SYNTHESIS IN PLANTS
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Pred. No. 2.4e+02;
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Pred. No. 2.4e+02;
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Best Local Similarity
Watches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-572-951-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-572-951-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (202) 822-0944
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                COUNTRY: USA
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPAN-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/263,921
FILING DATE: 21-JUN-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Paul N. Kokulis
REGISTRATION UMBER: 16,773
REFERENCE/DOCKET NUMBER: 222957/1.02.15C
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: MODIFICATION OF STARCH
TITLE OF INVENTION: SYNTHESIS IN PLANTS
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 800 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/346,602
FILING DATE: 29-NOV-1994
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                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                               STREET: 1100 New CITY: Washington STATE: DC
APPLICATION NUMBER: US/08/572,951 FILING DATE: 15-DEC-1995 CLASSIFICATION: 800
                                                                                                                                                                                                                                 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
ADDRESSEE: Intellectual Property Group of
ADDRESSEE: Pillsbury Madison & Sutro LLP
STREET: 1100 New York Avenue, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.25
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OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
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PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/346,602 FILING DATE: 29-NOV-1994 CLASSIFICATION: 800

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RESULT 15
US-09-239-043D-2113
; Sequence 2113, Application US/09239043D
; Patent No. 6689363
; GENERAL INFORMATION:
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US-09-255-501-98
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INFORMATION FOR SEQ ID NO: 23
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: GC527
CURRENT APPLICATION NUMBER: US/09/255,501
CURRENT FILING DATE: 1999-02-23
NUMBER OF SEQ ID NOS: 211
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 98
LENGTH: 15
                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
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APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: MUTANT PROTEINS HAVING LOWER ALLERGEN:
TITLE OF INVENTION: HUMANS AND METHODS FOR CONSTRUCTING,
TITLE OF INVENTION: PRODUCING SUCH PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
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Patent No. 6596525
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APPLICANT: Sette, Alessandro APPLICANT: Sidney, John APPLICANT: Southwood, Scott
                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Description of Artificial Sequence: Synthetic
                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
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NAME: Paul N. KOKULLS
REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: 222957/1.02.15C
TELECOMMUNICATION INFORMATION:
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APPLICATION NUMBER: 08/2
FILING DATE: 21-JUN-1994
CLASSIFICATION: 800
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                                   Alessandro
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83.3%;
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100.0%; Pred. No. 3.7e+02;
tive 0; Mismatches 0;
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Pred. No. 3.7e+02;
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Search completed: June 13, 2006, 02:48:37 Job time: 49 secs

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Query Match
Best Local Similarity
Warches 5; Conserve
                                                                                                                                                               ; TYPE: PRT
; ORGANISM: Orthohepadnaviridae hepatitis B virus
US-09-239-043D-2113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: US 08/978,291
PRIOR FILLING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: US 08/820,360
PRIOR FILLING DATE: 1997-03-12
PRIOR APPLICATION NUMBER: US 60/013,363
PRIOR APPLICATION NUMBER: US 08/461,603
PRIOR FILLING DATE: 1995-06-05
PRIOR FILLING DATE: 1995-06-05
                                                                                                                                                                                                                             Remaining Prior Application data removed -
NUMBER OF SEQ ID NOS: 2579
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2113
LENGTH: 15
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions FILE REFERENCE: 2060.0060007 CURRENT APPLICATION NUMBER: US/09/239,043D CURRENT FILING DATE: 1999-01-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 1998-11-10
                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 08/197,484 PRIOR FILING DATE: 1994-02-16
                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 1994-03-04
                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 08/278,634 PRIOR FILING DATE: 1994-07-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 1994-12-01
PRIOR APPLICATION NUMBER: US 08/344,824
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1994-11-23
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6 KIPMGVGLS 14
                                          2 KLSMGSGLN 10
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Epimmune Inc.
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Celis, Esteban
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                                                                                    Conservative
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Pred. No. 3.7e+02;
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Match
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1: /BMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

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6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep:*
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  GenCore version (c) 1993 - 2006
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US-10-801-990-181
US-10-628-601-2110
US-10-769-514-15
US-10-769-514-15
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US-11-020-602-96
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US-11-19-138-3815
US-10-149-138-3815
US-10-149-138-3815
US-10-495-146-89
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Biocceleration Ltd.
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10, Appl
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16, Appl
16, Appl
17, Appl
97, Appl
98, Appl
99, Appl
                                      87, Appl
88, Appl
89, Appl
2113, Ap
2120, Ap
                                 FILE REFERENCE: 028722-001

CURRENT APPLICATION NUMBER: US/10/769,514

CURRENT FILING DATE: 2004-01-30

PRIOR APPLICATION NUMBER: US 60/444,113

PRIOR FILING DATE: 2003-01-31

NUMBER OF SEQ ID NOS: 86

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 10

LENGTH: 15
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US-10-769-514-10
                                                                                                                                                                                                                                                                            Sequence 10, Application US/10769514 Publication No. US20040258695A1 GENERAL INFORMATION:
                                                                                                                                                                                                                               APPLICANT: Schryvers, Anthony
TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
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26 35.1 15 6 US-11-020-002-120 27 33.8 15 3 US-09-908-943A-22 28 33.8 15 4 US-10-149-137A-450 28 33.8 15 4 US-10-149-137A-450 29 33.8 15 4 US-10-149-137A-450 29 33.8 15 5 US-10-801-898-22 29 33.8 15 5 US-10-801-938-22 29 33.8 15 5 US-10-801-938-22 29 33.8 15 5 US-10-801-93-22 20 33.8 15 5 US-10-801-93-22 21 33.8 15 5 US-10-801-493-22 22 33.8 15 5 US-10-801-493-22 23 33.8 15 5 US-10-801-493-22 24 32.4 15 4 US-10-149-138-3820 25 33.8 15 4 US-10-149-138-3820 26 32.4 15 4 US-10-149-138-3820 27 32.4 15 4 US-10-149-138-3820 28 32.4 15 4 US-10-149-138-3820 29 32.4 15 4 US-10-149-138-3820 20 32.4 15 4 US-10-149-138-3820 20 32.4 15 4 US-10-149-138-3820 21 32.4 15 4 US-10-149-138-3820	33.8 15 3 US-1 33.8 15 4 US-1 33.8 15 5 US-1 33.8 15 US-1 33.8 US-1 34.8 US-1 35.8 US-1 35.	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	0
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	Sequence			US-10-416-249-555	-10-			-10-801-493	1-10-654-601-215		-10-801-509	-10-801-938		Ľ			-09	1-11	

ALIGNMENTS

## RESULT 1 US-10-612-162-3 Sequence 3, Application US/10612162 Publication No. US20040014145A1 GENERAL INFORMATION: APPLICANT: Dade Behring Marburg GmbH FITTLE OF INVENTION: Carbohydrate deficient transferrin TITLE OF INVENTION: antibodies, their preparation and FILE REFERENCE: 2002/B001 US-10-612-162-3 CURRENT APPLICATION NUMBER: US/10/612,162 CURRENT FILING DATE: 2003-07-03 PRIOR APPLICATION NUMBER: 10230550.1 PRIOR FILING DATE: 2002-07-05 PRIOR APPLICATION NUMBER: 03011334.4 PRIOR FILING DATE: 2003-05-19 PRIOR FILING DATE: 2003-05-19 NUMBER OF SEQ ID NOS: 4 SOFTWARE: Patentin Ver. 2.1 SOFTWALL 15 Query Match Best Local S Matches 15 TYPE: PRT ORGANISM: Homo 15; 1 SKLSMGSGLNLSEPN 15 Similarity SKLSMGSGLNLSEPN Conservative sapiens 100.0%; Score 74; DB 4; L 100.0%; Pred. No. 3.4e-06; ... Mismatches 0; deficient transferrin (CDT)-specific Length 15; Indels 0 Gaps

0

ORGANISM: Homo sapiens

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APPLICANT: Schryvers, Anthony
TITLE OF INVENTION: Transferrin Binding Peptides and Use
FILE REFERENCE: 028722-001
CURRENT APPLICATION NUMBER: US/10/769,514
CURRENT FILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 60/444,113
PRIOR APPLICATION NUMBER: US 60/444,113
PRIOR FILING DATE: 2003-01-31
NUMBER OF SEQ ID NOS: 86
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 42
LENGTH: 15
TYPE: PRT
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                                                                                                                       ; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-801-990-180
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Publication No. US20040258695A1
GENERAL INFORMATION:
                                                                                                                                                                                 SOFTWARE: PatentIn version 3.2 SEQ ID NO 180
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Best Local Similarity
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Best Local
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                                                                                                                                                                                                                                                                                        APPLICANT: Kantor, Aaron B.
APPLICANT: Schulman, Howard
APPLICANT: Becker, Christopher
TITLE OF INVENTION: BIOWARKERS FOR RHEUMATOID ARTHRITIS
FILE REFERENCE: SURR.121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE: OTHER INFORMATION: TbpB-binding peptides
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11; Conservative
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LCMGSGLNLCEPN 13
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b. US20050048574A1
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Pred. No. 0.
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Pred. No. 0.
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CURRENT APPLICATION NUMBER: US/09/239,043
PRIOR APPLICATION NUMBER: US/09/239,043
PRIOR PILING DATE: 1999-01-27
PRIOR APPLICATION NUMBER: US 09/189,702
PRIOR PILING DATE: 1998-11-10
PRIOR PPLICATION NUMBER: US 08/978,291
PRIOR APPLICATION NUMBER: US 08/978,291
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: US 60/013,360
PRIOR APPLICATION NUMBER: US 60/013,363
PRIOR PILING DATE: 1997-03-12
PRIOR PPLICATION NUMBER: US 60/013,363
PRIOR PILING DATE: 1996-03-13
PRIOR PPLICATION NUMBER: US 08/461,603
PRIOR PILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR PILING DATE: 1994-12-01
PRIOR PILING DATE: 1994-12-01
PRIOR PILING DATE: 1994-07-21
PRIOR PILING DATE: 1994-07-21
PRIOR PILING DATE: 1994-07-21
PRIOR PILING DATE: 1994-03-04
PRIOR PRIOR PILING DATE: 1994-03-04
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CURRENT FILING DATE: 2004-03-15
PRIOR APPLICATION NUMBER: US 60/455,037
PRIOR FILING DATE: 2003-03-14
NUMBER OF SEQ ID NOS: 395
SOFTWARE: Patentin version 3.2
SEQ ID NO 184
LENGTH: 15
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Best Local Similarity
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Grey, Howard M.
APPLICANT: Chesnut, Robert
TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REFERENCE: 2060.0067
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APPLICANT: Becker, Christopher
TITLE OF INVENTION: BIOMARKERS FOR RHEUMATOID ARTHRITIS
FILE REFERENCE: SURR.121
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Vitiello, Maria A.
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Sequence 15, Application US/10769514

Publication No. US20040258695A1

GENERAL INFORMATION:
APPLICANT: Schryvers, Anthony
ITTLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
FILE REFERENCE: 028722-001

CURRENT APPLICATION NUMBER: US/10/769,514

CURRENT FILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 60/444,113

PRIOR APPLICATION NUMBER: US 60/4
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US-10-769-514-16
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US-10-769-514-16
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Publication No. US20040258695A1
GENERAL INFORMATION:
APPLICANT: Schryvers, Anthony
TITLE OF INVENTION: Transferrin Binding Peptides and
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LENGTH: 15
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CURRENT APPLICATION NUMBER: US/10/769,514
CURRENT FILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 60/444,113
PRIOR FILING DATE: 2003-01-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 86
SOFTWARE: FastSEQ for Windows Version 4.0
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Local Similarity 50.0%;
nes 6; Conservative
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Pred. No. 6.8e+02;
"" "" amatches 3;
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Pred. No. 1e+03;
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2.9e+02;
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RESULT 11
US-10-895-064-574
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; Sequence 97, Application US/10924092A
; Publication No. US20050137112A1
; GENERAL INFORMATION:
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US-10-924-092A-96
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TITLE OF INVENTION: MUTANT PROTEINS HAVING LOWER ALLERGENIC RESPONSE IN HUMANS AND
TITLE OF INVENTION: METHODS FOR CONSTRUCTING, IDENTIFYING AND PRODUCING SUCH PROTEIN
TITLE OF INVENTION: METHODS FOR CONSTRUCTING, IDENTIFYING AND PRODUCING SUCH PROTEIN
CURRENT FILE REFERENCE: GC527-1
CURRENT PILING DATE: 2004-08-23
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 211
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 96
LENGTH: 15
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Publication No. US20050137112A1
GENERAL INFORMATION:
APPLICANT: Estell, David A.
APPLICANT: Harding, Fiona A.
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Best Local
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Best Local
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APPLICANT: Harding, Fiona A.
APPLICANT: HARDING, Fiona A.
APPLICANT: HARDING, FIONA A.
APPLICANT: HARDING, FOR CONSTRUCTING, IDENTIFYING AND PRODUCING SUCH PROTEIN
TITLE OF INVENTION: METHODS FOR CONSTRUCTING, IDENTIFYING AND PRODUCING SUCH PROTEIN
FILE REFERENCE: GC527-1
CURRENT APPLICATION NUMBER: US/10/924,092A
CURRENT FILING DATE: 2004-08-23
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 211
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Pred. No. 1e+03;
2; Mismatches
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Pred. No. 1e+03;
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Sequence 574, Application US/10895064 Publication No. US20060018923A1 GENERAL INFORMATION: APPLICANT: PEIRIS, JOSEPH S.M.

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RESULT 13
US-11-020-628-97
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APPLICANT: ESTEEL1, David
APPLICANT: Harding, Fiona
APPLICANT: Harding, Fiona
TITLE OF INVENTION: METHODS OF MAKING AND U
FILE REFERENCE: GC527C2
CURRENT APPLICATION NUMBER: US/11/020,628
CURRENT FILING DATE: 2004-12-22
PRIOR APPLICATION NUMBER: US 09/500,135
PRIOR APPLICATION NUMBER: US 09/60,872
PRIOR PILING DATE: 1908-04-15
PRIOR FILING DATE: 1908-04-15
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US-11-020-628-96
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US-10-895-064-574
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           Sequence 97, Application US/11020628
Publication No. US20050164257A1
GENERAL INFORMATION:
APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: METHODS OF MAK.
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APPLICANT: LEUNG, FREDERICK C.
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: V0690.0031
CURRENT PAPLICATION NUMBER: US/10/895,064
CURRENT FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 2918
SOFTWARE: PatentIn version 3.2
SEQ ID NO 574
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 96
LENGTH: 15
TYPE: PRT
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Publication No. US20050164257A1
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FILE REFERENCE: GC527C2
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TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
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Similarity 62.5%;
5; Conservation
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               OF MAKING
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Pred. No. 1e+03;
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               AN ALTERED IMMUNOGENIC RESPONSE AND AND USING THE SAME
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Sequence 97, Application US/11020602
Publication No. US20060024764A1
GENERAL INFORMATION:
APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: PROTEINS PRODUCING AN
TITLE OF INVENTION: METHODS OF MAKING AN
FILE REFERENCE: GC527C2
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                                                                                                                                                                                  RESULT 15
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SEQ ID NO 96
LENGTH: 15
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PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 240
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 97
LENGTH: 15
TYPE: PRT
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CURRENT FILLING DATE: 2004-12-22
PRIOR APPLICATION NUMBER: US 09/500,135
PRIOR FILING DATE: 2000-02-08
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR FILLING DATE: 1998-04-15
PRIOR FILLING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Estell, David
APPLICANT: Harding, Fiona
TITLE OF INVENTION: PROTEINS PRODUCING AN ALTERED IMMUNOGENIC RESPONSE AND
TITLE OF INVENTION: METHODS OF MAKING AND USING THE SAME
FILE REFERENCE: GC527C2
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CURRENT FILING DATE: 2004-12-22
PRIOR APPLICATION NUMBER: US 09/500,135
PRIOR FILING DATE: 2000-02-08
                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
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5; Conserve
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Pred. No. 1e+C
2; Mismatches
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Pred. No.
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                          AN ALTERED IMMUNOGENIC RESPONSE AND AND USING THE SAME
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CURRENT APPLICATION NUMBER: US/11/020,602 CURRENT FILING DATE: 2004-12-22 PRIOR APPLICATION NUMBER: US 09/500,135

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PRIOR FILING DATE: 2000-02-08
PRIOR APPLICATION NUMBER: US 09/060,872
PRIOR PRILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 240
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 97
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
ORGANISM: Artificial Sequence
FEATURE:
ORGANISM: OF SEQ ID NOS: 240
US-11-020-602-97
Query Match
Best Local Similarity 62.5%; Score 27; DB 6; Length 15;
Best Local Similarity 62.5%; Pred. No. 1e+03;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy
1 SKLSWGSG 8
Search completed: June 13, 2006, 03:02:14
Job time: 181 secs
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Result
No.
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Scoring table:
   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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     protein search, using sw model
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Match
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(without alignments)
11.156 Million cell updates/sec
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Gapop 10.0 , Gapext 0.5
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   SKLSMGSGLNLSEPN 15
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US-11-295-192A-1161
US-11-295-192A-1163
US-11-295-192A-1163
US-11-295-192A-1164
US-11-295-192A-1166
US-11-295-192A-233
US-11-295-192A-233
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US-11-295-192A-233
US-11-295-192A-234
US-11-295-192A-236
US-11-295-192A-1159
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1164, Ap
1165, Ap
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232, App
234, App
234, App
237, App
237, App
239, App
239
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1165,
1166,
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RESULT 2 US-11-295 ; Sequence ; Sequence ; Sepublicat ; GENERAL ; APPLICA ;	Query Ma Best Loc Matches Qy	RESULT 1 US-11-295-192A Sequence 116 Publication GENERAL INFO GENERAL INFO APPLICANT FILE REFERE CURRENT APPLI PRIOR FILLN PRIOR FILLN NUMBER OF S SOFTWARE: SOFTWARE: SEQ ID NO 11 LENGTH: 15 TYPE: PRIOR TYPE: PRIOR ORGANISM: FEATURE: ORGANISM: FEATURE: ORGANISM: FEATURE: OTHER INFO US-11-295-192A		2222 2222 3222 3222 3223 323 323 323 32
IESULT 2 Sequence 1161, Applic. Sequence 1161, Applic. Publication No. US200 GENERAL INFORMATION: APPLICANT: Crucell H. APPLICANT: Sloctet: APPLICANT: Sloctet: APPLICANT: Bujk, W. APPLICANT: Goudsmit TITLE OF INVENTION: FILE REFERENCE: 0089 CURRENT APPLICATION:	tch sal Similari 5; Cons 7 SGLNLSE   :	1160, App 1160, App 1160, App 1160, No. Us INFORMATIO UNT: Crucell UNT: Ter m UNT: Sloot ENT Gouds PFILITY GOUDS PFILITY DA PFILITY DA PFILITY DATOR OF SEQ ID 1160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160 11160		19 25 19 25 19 25 19 25 19 25 18 24 18 24
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3A1 3A1 3.V. 3.W. 3.W. 5.W. 6.C peptide 0.K.D.	%; Score %; Pred. 1; Mj	/11295192 11 V.V. H. W. peptide DE/11/295 2-06 2-06 2-06 1/EP2004/	⊳	7 US-11-295 7 US-11-295 7 US-11-295 7 US-11-295 7 US-11-301 10 US-11-301 10 US-11-140 10 US-11-140 11 US-11-295 11 US-11-295 12 US-11-295 13 US-11-295 14 US-11-295 15 US-11-295 17 US-11-295 18 US-11-295 19 US-11-295
of SARS	NO. 2.1e+0 smatches	of SARS 192A 51102	LIGNMENTS	192A-89 192A-89 192A-89 192A-89 193A-94 487A-21 1487A-21 1487A-21 192A-42 1192A-43 1192A-44 1192A-46 1192A-46 1192A-46 1192A-46 1192A-48
coronavirus	Length 1: 2; 3; Indel	r Tu		10 110
and used	5; 6 0; G	s and used		Sequence 89 Sequence 21 Sequence 31 Sequence 21 Sequence 21 Sequence 21 Sequence 42 Sequence 42 Sequence 43 Sequence 44 Sequence 44 Sequence 44 Sequence 48 Sequence 48 Sequence 48 Sequence 48 Sequence 48 Sequence 49
thereof	Gaps 0;	thereof		96, App 97, App 6167, Ap 6167, App 6167, App 116, Ap 116, Ap 116, Ap 116, Ap 116, Ap 117, Ap 1

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Sequence 1162, Application US/11295192A

Publication No. US20060110803A1

GENERAL INFORMATION:
APPLICANT: Crucell Holland B.V.
APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Puijk, Wouter C.
APPLICANT: Goudsmit, Jenic peptides of SARS coronavirus and FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A

CURRENT APPLICATION NUMBER: PCT/EP2004/051102

PRIOR APPLICATION NUMBER: PCT/EP2004/051102

PRIOR APPLICATION NUMBER: PCT/EP2004/051102
          Sequence 1163, Application US/11295192A

Publication No. US20060110803A1

GENERAL INFORMATION:
APPLICANT: Crucell Holland B.V.
APPLICANT: Ter Meulen, Jan H.
APPLICANT: Sloctetra, Jelle W.
APPLICANT: Goudentt, Jaap

TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A

CURRENT FILING DATE: 2005-12-06

PRIOR APPLICATION NUMBER: PCT/EP2004/051102
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 1162
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PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
NUMBER OF SEQ ID NOS: 1264
SOFTWARE: Patentin version 3.1
SEQ ID NO 1161
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Best Local (
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PRIOR FILING DATE: 2004-06-14
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Local Similarity 55.6%;
les 5; Conservative
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Pred. No. 2.1e+02;
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Pred. No. 2.1e+02;
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Matches 5; Conserve
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                                                                                                                                                                                                                                                                                                                                      RESULT 6
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APPLICANT: Crucell Holland B.V.
APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Puljk, Wouter C.
APPLICANT: Goudsmit, Jaap
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NUMBER OF SEQ ID NOS: 1264
SOFTWARE: PatentIn version
SEQ ID NO 1165
                                                                                                                                                                                                                                                                                Sequence 1165, Application US/11295192A Publication No. US20060110803A1
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 1163
LENGTH: 15
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                                                    APPLICANT: Goudsmit, Jaap
TITLE OF INVENTION: Antigenic peptides of SARS
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
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TITLE OF INVENTION: Antigenic peptides of SARS coronavirus
FILE REFERENCE: 0089 WO 00 ORD
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APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
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ORGANISM: Artificial sequence
FEATURE:
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ORGANISM: Artificial sequence
FEATURE:
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    Mismatches

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Pred. No. 2.1e+02;
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; Sequence 232, Application US/11295192A
; Publication No. US20060110803A1
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SEQ ID NO 1166
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                                     SOFTWARE: PatentIn version 3.1
SEQ ID NO 232
LENGTH: 15
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Best Local Similarity 55.6%;
Matches 5; Conservative
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                                                                                                                   APPLICANT: Goudsmit, Jaap
TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0.089 WO 0.0 CRD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
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TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
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APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Puljk, Wouter C.
APPLICANT: Goudsmit, Jaap
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                                                                                                NUMBER OF SEQ ID NOS: 1264
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ORGANISM: Artificial sequence
FEATURE:
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ORGANISM: Artificial sequence
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Slootstra, Jelle W.
Puijk, Wouter C.
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Pred. No. 2.1e+02;
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; OTHER INFORMATION: Synthetic peptide US-11-295-192A-232
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; OTHER INFORMATION: Synthetic peptide US-11-295-192A-234
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                                                                                                                           SOFTWARE: PatentIn version 3.1 SEQ ID NO 234
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                                                                                                                                                           APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Goudsmit, Jaap
TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
NUMBER: OF SEQ ID NOS: 1264
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Best Local
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TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
CURRENT FILING DATE: 2005-12-06
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PRIOR FILING DATE: 2004-06-14
NUMBER OF SEQ ID NOS: 1264
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APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Puijk, Wouter C.
                                            ORGANISM: Artificial sequence FEATURE:
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ORGANISM: Artificial sequence
                                                                                     TYPE: PRT
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Pred. No. 4.8e+02;
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Query Match
Best Local Similarity
Matches 4; Conserv

4; Conservative

1; Mismatches

3; Indels

0

Gaps

0

Length 15

28.4%;

Score 21; DB 7; Pred. No. 4.8e+02;

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APPLICANT: Crucell Holland B.V.
APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Goudsmit, Jaap
TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT APPLICATION NUMBER: PCT/EP2004/051102
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
NUMBER OF SEQ ID NOS: 1264
SOFTWARE: Patentin version 3:1
SEQ ID NO 236
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic peptide
US-11-295-192A-236
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 235
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-11-295-192A-235
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Query Match
Best Local Similarity
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Best Local Similarity
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APPLICANT: Ter Meulen, Jan H.
APPLICANT: Sloctstra, Jelle W.
APPLICANT: Sloctstra, Jelle W.
APPLICANT: Gudsmit, Jaap
TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
NUMBER OF SEO IN NOC. 10364
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  28.4%;
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Pred. No. 4.8e+02;
  Score 21; DB 7;
Pred. No. 4.8e+02;
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US-11-295-192A-237
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                                                                                                              ; OTHER INFORMATION: Synthetic peptide US-11-295-192A-238
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US-11-295-192A-238
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ITILE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof

FILE REFERENCE: 0089 WO 00 ORD

CURRENT APPLICATION NUMBER: US/11/295,192A

CURRENT FILING DATE: 2005-12-06

PRIOR APPLICATION NUMBER: PCT/EP2004/051102

PRIOR FILING DATE: 2004-06-14

NUMBER OF SEQ ID NOS: 1264

SOFTWARE: PatentIn version 3.1

SEQ ID NO 237
                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 238, Application US/11295192A Publication No. US20060110803A1 GENERAL INFORMATION:

APPLICANT: Crucell Holland B.V. APPLICANT: Ter Meulen, Jan H. APPLICANT: Slootstra, Jelle W. APPLICANT: Puijk, Wouter C.
                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 1264
SOFTWARE: PatentIn version 3.1
SEQ ID NO 238
LENGTH: 15
                                   Best Local Similarity
Matches 4; Conserv
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APPLICANT: Crucell Holland B.V.
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TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR APPLICATION NUMBER: PCT/EP2004/051102
PRIOR FILING DATE: 2004-06-14
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TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
                                                                                                                                                  FEATURE:
                                                                                                                                                                   ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity 50.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 SGLNLSEP 14
 7 SGLNLSEP 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SGFNTLKP 10
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Slootstra, Jelle W.
Puijk, Wouter C.
                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28.4%;
                                                        28.4%;

    Mismatches

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    Mismatches

                                                        Score 21; DB 7;
Pred. No. 4.8e+02;
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Pred. No. 4.8e+02;
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RESULT 15
US-11-295-192A-239
Sequence 239, Application US/11295192A
Publication No. US20060110803A1
GENERAL INFORMATION:
APPLICANT: Crucell Holland B.V.
APPLICANT: Ter Meulen, Jan H.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Slootstra, Jelle W.
APPLICANT: Goudsmit, Jaap
TITLE OF INVENTION: Antigenic peptides of SARS coronavirus and used thereof
FILE REFERENCE: 0089 WO 00 ORD
CURRENT FILING DATE: 2005-12-06
PRIOR APPLICATION NUMBER: US/11/295,192A
CURRENT FILING DATE: 2005-12-06
PRIOR FILING DATE: 2004-06-14
NUMBER OF SEQ ID NOS: 1264
SOFTWARE: Patentin version 3.1
SEQ ID NO 239
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
FEATURE:
OTHER INFORMATION: Synthetic peptide
US-11-295-192A-239
Search completed: June 13, 2006, 03:02:36 Job time: 17 secs
                                                                                            밁
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                                                                                                                                                                                  Query Match 28.4%; Score 21; DB 7; Length 15; Best Local Similarity 50.0%; Pred. No. 4.8e+02; Matches 4; Conservative 1; Mismatches 3; Indels
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2 SGFNTLKP 9
                                                                                          1 SGENTLKP 8
                                                                                                                                        7 SGLNLSEP 14
                                                                                                                                                                                    0,
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Result
No.
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Maximum
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Perfect score:
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 score
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                                                                                                                                                                                                                                                                                                                                       No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, s derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                   A_Geneseq_8:*
1: geneseqp198
2: geneseqp200
3: geneseqp200
4: geneseqp200
6: geneseqp200
6: geneseqp200
7: geneseqp200
9: geneseqp200
10: geneseqp200
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length: 2000000000
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Match
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68
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(without alignments)
70.661 Million cell updates/sec
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Maximum Match 100%
Listing first 45 summaries
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geneseqp2002s:*
geneseqp2003as:*
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geneseqp2004s:*
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geneseqp2000s:*
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                                                                                                                                                                                                                                                                               Length
GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                               BB
                                                                  ABM83783
AAU02938
ABM83780
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ABM83781
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ADT08174
ABM83778
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ADK15882
ADL70756
ADF74798
AAB84371
            ADH89360
ADK15869
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ADL24413
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                                                                                                                                                                                                                                             ABP72836
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                                                        ABP72820
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                                                               Adg46078 Human CDT
Abg72836 Human tra
Adh89394 Human tra
Adh89394 Human tra
Adk15882 Human tra
Adk170756 Human tra
Adf74798 Human nov
Aab84371 Amino aci
Aau02980 Angiotens
Abr82371 Human met
Abm83778 Human dia
Abm83778 Human met
Abm83778 Human met
Abm83778 Human dia
Abm83780
Abp72820
Adh89360
Adk15869
Adl70732
Adl24413
Adu17885
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                                 Human to Human to Mature
Human
Human
                       Human
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45	44	43	42	41	40	39	38	37	36	35	34	<b>33</b>	32	31	30	29	28	27	26	25	24
68	68	68	68	68	68	68	68	68	68	68	68	83	68	68	68	89	68	68	68	68	68
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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ADD45282	ABP72819	AAY50717	AAW54354	AAR66492	AAR12499	AAP70384	AEE47501	ADY57103	ADY57102	ADY54149	ADT55066	ADU00630	ADU17468	ADU17611	ADT98423	ADT36538	ADT99248	ADT78149	ADT78912	ADU07204	ADT55264
Add45282 Human Pro	Abp72819 Human tra	Aay50717 Human ser	Aaw54354 Serotrans	Aar66492 Human tra	Aar12499 Human tra	Aap70384 Sequence	Aee47501 Human tra	Ady57103 Human ser	Ady57102 Human ser	Ady54149 Amino aci	Adt55066 Human par	Adu00630 Human tra	Adul7468 Human tra	Adul7611 Human tra	Adt98423 Human tra	Adt36538 Partial h	Adt99248 Partial h	Adt78149 Human tra	Adt78912 Human tra	Adu07204 Amino aci	Adt55264 Partial h

## ALIGNMENTS

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RESULT 1
ADG46078
This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences vVARNMGKEDLIWELL, TTEDSIAKIMNGEADAMSLDGGF, SKLSMGSGLINLSERN and YEKYLGEEYVKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention. The antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated rensferrin or a fragment than general ton of hybridomas by standard transferrin or a fragment than general ton of hybridomas by standard
                                                                                                                                                                                                                                         New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating need for immobilization.
                                                                                                                                                                                                        Claim 4; SEQ ID NO 4; 21pp; German.
                                                                                                                                                                                                                                                                                                                WPI; 2004-073743/08.
                                                                                                                                                                                                                                                                                                                                                 Althaus H;
                                                                                                                                                                                                                                                                                                                                                                                                                     05-JUL-2002; 2002DE-01030550.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-MAY-2003; 2003EP-00011334
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EP1378521-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antibody; carbohydrate-deficient transferrin; CDT;
non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human CDT peptide fragment
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transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for

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RESULT 2
ABP72836
ID 7897
XX ABP7
XX ABP7
XX ABP7
XX ABP7
XX ABP7
XX Tran
XX Tran
XX ABP1
XX BAN
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Best Local S
Matches 13
      The present sequence is a portion of the human transferrin (Tf) C domain comprising amino acids 611-659 of the Tf sequence given in ABP72820. The invention relates to novel fusion proteins of Tf and a therapeutic protein or peptide. The therapeutic protein or peptide, e.g. an erythropoietin mimetic (see ABP72834), can be fused to the N- or C-terminus of Tf, or inserted into Tf especially between residues Glu-625
                                                                                                                                                                                                                                                                     New fusion protein, useful in the diagnosis and treatment of diseases disorders relating to the respiratory, cardiovascular and digestive systems, comprises a transferrin protein fused to a therapeutic protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Transferrin, neuroprotective; cerebroprotective; vasotropic; antiparkinsonian; nootropic; anti-HIV; antiasthmatic; antiallergic; cytostatic; immunosuppressive; antiatherosclerotic; cardiant; gynaecological; immunostimulant; antianaemic; haemostatic; antiparasitic; antiinflammatory; dermatological; antibacterial; virucide; antiparasitic; fungicide; hepatotropic; antirheumatic; antiarthritic; antigout; transquillizer; vulnerary; antidiabetic; nephrotropic; antipyretic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 production of antibodies that specifically bind CDT from the aqueous phase. The antibodies are useful for diagnosis of alcoholism, CDT, whice lacks glycosylation at Asn413 and/or Asn 611, is present only in alcoholics. The antibodies allow direct detection of CDT in solution, eliminating the need for immobilising it on a solid phase (as required when using known antibodies). ADG46075-ADG46094 represent CDT peptide fragments used in the method of the invention.
                                                                                                                                                                                                                 Example 3;
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-332916/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Misc-difference
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30-NOV-2001;
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                                                                                                                                                                                                              Page 249; 298pp;
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2001US-0334059P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "peptide insertion site"
                                                                                                                                                                                                                 English
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                        fused to a therapeutic protein.
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This invention relates to a novel fusion protein which comprises a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region. The invention may be useful for the development of compounds with cytostatic, antibacterial, virucide, antiparasitic, immunosuppressive or antiarthritic activity. In addition, the sequences disclosed may be useful for gene therapy. The fusion protein is useful for preparing a composition for treating a disease or disease symptom in a patient for example septic shock, endotoxic shock, cachexia syndromes associated with bacterial, viral or parasitic infections, neoplasm, autoimmune disease, arthritis or adverse effects associated with treatment for preventing graft rejection. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fusion protein; transferrin protein; glycosylation; antibody variable region; cytostatic; antibacterial; virucide; antiparasitic; immunosuppressive; antiarthritic; gene therapy; septic shock; endotoxic shock; cachexia syndrome; bacterial infectiviral infection; parasitic infection; neoplasm; autoimmune disease; arthritis; graft rejection; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention can be used in the diagnosis, prognosis, prevention and/or treatment of diseases and/or disorders of the endocrine, nervous, immune, respiratory, cardiovascular, reproductive and digestive systems, diseases and/or disorders relating to the blood or to cell proliferation, inflammatory conditions and infectious diseases, or to deliver a therapeutic agent to a cell or across the blood-brain barrier
                                                                                                                                                                                                                                                    New fusion protein comprising a transferrin protein exhibiting reduced glycosylation fused to at least one antibody variable region, useful fi preparing a composition for treating e.g., septic shock, neoplasm or
                                                                                                                                                                                                                                                                                                                                                                                                                         30-AUG-2001; 2001US-0315745P
30-NOV-2001; 2001US-0334059
30-AUG-2002; 2002US-00231494
30-AUG-2002; 2002US-0406977P
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Best Local (
                                                                                                                                                                                                                                                                                                                               The invention comprises a fusion protein that contains a modified transferrin (Tf) protein fused to a therapeutic protein/peptide (e.g. beta-interfero - IFN, glucagons-like peptide - GLP-1, erythropoietin mimetic peptide - EMP1, T-20 and soluble toxin receptor). The fusion protein of the invention is useful for epitope tagging. The present an acid sequence represents a fragment of the human Tf protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fusion protein; transferrin; Tf; beta-interferon; beta-IFN; glucagons-like peptide; GLP-1; erythropoietin mimetic peptide; T-20; soluble toxin receptor; epitope tagging; human.
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30-NOV-2001; 2001US-0334059P
30-AUG-2002; 2002US-00231499
30-AUG-2002; 2002US-0406977P
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Composition of transferrin (Tf) and therapeutic proteins with increased those modified so that the Tf molety exhibits no or reduced those modified so that the Tf molety exhibits no or reduced control of the transferrin (Tf) and therapeutic proteins with increased those modified so that the Tf molety exhibits no or reduced control of the transferrin (Tf) glycosylation, iron binding and/or Tf receptor binding. The transferrin (Tf) glycosylation, iron binding and/or Tf receptor binding. The transferrin (Tf) glycosylation, iron binding and/or Tf receptor binding. The transferrin (Tf) glycosylation, iron binding and/or Tf receptor binding. The transferrin (Tf) glycosylation, iron binding and/or the transferrin (Tf) glycosylation, iron binding and/or diseases and/or diseases and (Tf) glycosylation and/or treatment of autoimmune disorders (diseases and thrombocytopenia); allergic reactions such as allergic asthma, anaemia (Tf) glycosylation (Tf) glycosylat
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10-MAR-2003;
09-JUL-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel library containing several fusion proteins each of which comprises first transferrin polypeptide fused to at least one second peptide, useful for screening for transferrin fusion protein having the particula
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dermatological; Antiinflammatory; Antibacterial; Vasotropic; Nephrotropic; Neuroprotective; Cycostatic; Cerebroprotective; Vulnerary; Antiansemic; Antiahberosclerotic; Antiahberosclerotic; Thrombolytic; Anticoagulant; Gastrointestinal; Respiratory; transferrin;
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; 2003US-0485404P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ŧf,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27; 243pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  insertion region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sadeghi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (I) of modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antiasthmatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fusion
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                                                                                                                                                                                                                                                                                               20-MAR-2002;
22-MAR-2002;
12-APR-2002;
12-APR-2002;
12-APR-2002;
23-APR-2002;
12-JUN-2002;
14-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                       06-MAR-2002;
08-MAR-2002;
08-MAR-2002;
15-MAR-2002;
19-MAR-2002;
20-MAR-2002;
20-MAR-2002;
                                                                                             Alsobrook JP, Anderson DW, Boldog FL, Burgess CE, Chaudhuri A; Colman SD, Edinger SR, Ettenberg S, Gangolli EA, Gerlach VL; Gorman L, Guo X, Kekuda R, Li L, Maclachlan T, Malyankar UM; Mezes PS, Miller CE, Miller I, Padigaru M, Patturajan M, Peyman J; Qian X, Rastelli L, Rieger DK, Smithson G, Spytek KA, Stone DJ; Sukumaran S, Vernet CAM, Voss EZ, Zhong M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       human; NOVX; metabolic disorder; diabetes; anorexia; cancer; cardiovascular; infectious; neurodegenerative; immune; haematopoietic disease; dyslipidaemia; anorectic; virucide; nootropic; antiinflammatory; neuroprotective; antilipaemic; anabolic; cardiant; neurogenesis; wound healing; angiogenesis; chromosome mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 49
             preventing, diagnosing or treating NOVX-a osteoarthritis, obesity, atherosclerosis,
                          New isolated NOVX polypeptides and polynucleotides, useful for preventing, diagnosing or treating NOVX-associated disorders, (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADF74798 standard; protein;
                                                                                                                                                                                                                                                                        26-JUN-2002;
15-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-FEB-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADF74798;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003076578-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissue typing; preventive
                                                                                                                                                                                               (CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                 2003-697890/66.
DB; ADF74797.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NOVX protein to treat human pathological conditions (SeqID 12).
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                                                                                                                                                                                             CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              YEKYLGEEYVKAV 49
                                                                                                                                                                                                                                                                                               2002US-0372018P.
2002US-0372022P.
2002US-0374682P.
2002US-0388096P.
2002US-0389143P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                     ; 2002US-0412957P.
; 2002US-0420382P.
; 2003US-00420382.
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; 2002US-00093463.
; 2002WO-US007288.
; 2002US-0365034P.
                                                                                                                                                                                                                                                                                                                                                                                       2002US-0365884P.
2002US-0365884P.
2002US-0365984P.
                                                                                                                                                                                                                                                                                                                                                               2002US-0365985P.
2002US-0366928P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2003WO-US006794.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               medicine; pharmacogenomic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  137 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 8; Length 49; 0.0018;
                cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
              d disorders, e.g.
Parkinson's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                             hyperproliferative disorder; neoplasm; cardiovascular disorder; cardiac arrest; cerebrovascular disorder; cerebral ischemia; angiogenesis; nervous system disorder; Alzheimer's disease; infection; coular disorder; corneal infection; wound healing;
 Claim 11; Page 286-287; 290pp; English.
                                  Isolated nucleic acid molecule encoding a human tranferrin protein used in preventing, treating or ameliorating a medical condition.
                                                                                                                                                                                                                                  21-DEC-2000; 2000WO-US034769.
                                                                                                                                                                                                                                                                                                  WO200146254-A1.
                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB84371 standard; protein; 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 137 AA;
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                                                                                 N-PSDB; AAH25190
                                                                                                                                    Ruben SM,
                                                                                                                                                                                                                                                                  28-JUN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; transferrin; autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Amino acid sequence of a human transferrin.
                                                                                                                                                                   (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
                                                                                                    2001-381910/40.
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                                                                                                                                  Shi Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                   99US-0171595P
                                                                                                                                                                                                                                                                                                                                                                 proliferation; aging; organ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO 12; 282pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 68;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                               disease; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.0051;
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RESULT 8
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ID ANUO2980
XX ANUO
AC AAUO
AC AAUO
XX Angi
XX Myoac
XX Myoac
XX Myoac
XX Myoac
XX Molal
XX Molal
XX Nov
PD 25-1
PR 11-
PR 17-
PR 11-
PR 11
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Angiotensin converting enzyme splice variant; ACEV; interleukin 6; granulocyte colony stimulating factor receptor; glucagon; hypertrophy; platelet-derived endothelial cell growth factor; cardiovascular disease; cellular tumour antigen P53; cyclin-dependent kinase inhibitor 10; vasoactive intestinal polypeptide receptor 2; arteriosclerosis; cancer; myocardial infarction; coronary arterial thrombosis; renal disease; miorardial infarction; coronary arterial thrombosis; sarcoidosis; multiple sclerosis; immune complex nephritis; deep vein thrombosis; nonarcoidotic pulmonary granulomatous disease; endothelial abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e.g. cerebral ischemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities
                                                                                                        Novel alternative splicing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents human transferrin polypeptide. Transferrin polypeptides and polynucleotides are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebroyascular disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-NOV-1999;
10-DEC-1999;
                                      Claim 4; Fig
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Angiotensin converting enzyme (ACEV) splice variant protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAU02980 standard; protein; 539
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                                                                                                                                                                                                                                                                                                                                                                               Levine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vascular disorder; asbestosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COMP-)
                                                                                                                                                                                                                                                                                                         2001-336004/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ol Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUGEN LTD
                                                                                                                                                                                                                                                                  AAS06080.
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                                                                                                                                                                                                                                                                                                                                                                               David
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                                      80; 519pp; English
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99IL-00133455.
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                                                                                                                                                                                                                                                                                                                                                                               Azar
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; DB 4;
. 0.013;
                                                                                                                                                                                                                                                                                                                                                                               Bernstein J;
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ARRESULT 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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                                                                                                                                                                                                                                                                          Kable AE,
Emerling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEPR; metalloprotein; anti-HIV; antiallergic; antiinflammatory; human; antianemic; antiparkinsonian; nootropic; anticonvulsant; cytostatic; antiarteriosclerotic; antiasthmatic; immunosuppressive; antitityroid; hepatotropic; dermatological; antidiabetic; nephrotropic; antigout; thyromimetic; neuroprotective; osteopathic; antiarthritic; uropathic; antiparasitic; antihelmintic; antipsoriatic; ophthalmological; virucide; antiphromatic; haemostatic; antibacterial; protozoacide; fungicide;
                                                                                                                                                                                                                                                                                                                                                                                                                                 14-JAN-2002; 2002US-0348769P.
18-JAN-2002; 2002US-0350701P.
19-MAR-2002; 2002US-0360659P.
10-MAY-2002; 2002US-0379907P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human metalloprotein (MEPR) polypeptide (Id-7509328CD1).
                                                                                                                                                       N-PSDB; ACF35812.
                                                                                                                                                                                       WPI; 2003-598523/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-JAN-2003; 2003WO-US001485
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                                                                                                                                                                                                                                                                                                                                                                       (INCY-) INCYTE GENOMICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
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13; Conserv
                                                                                                                                                                                                                                                                                 BM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               YEKYLGEEYVKAV 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YEKYLGEEYVKAV 519
                                                                                                                                                                                                                                                                             Griffin JA,
M, Chien D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             such as deep vein thrombosis
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                                                                                                                                                                                                                                                                             Gorvad
Jin P,
                                                                                                                                                                                                                                                                                                                                                                           INC.
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Pred. No.
                                                                                                                                                                                                                                                                          AE, Becha SD, I
Chawla NK, Yue
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. 0.021;
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                                                                                                                                                                                                                                                                             Richardson
e H, Khare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 539;
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                                                                                                                                                                                                                                                                                 Marquis JP;
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New human metalloproteins and polynucleotides, useful for diagnosing treating or preventing autoimmune or inflammatory disorders (e.g. All allergy or anemia), multiple sclerosis, osteoarthritis, cancer or

The invention relates to novel human metalloproteins (MEPR) and encoding

Claim

1; Page 146-148; 153pp; English

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RESULT 10
ABM83782
ID ABM83782
AC ABM83
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 13
                                                                                                                                                                                                                                                   Schmidt JP, Wright RJ, Bruns CM, Marjanovic MM, Shen F;
Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV;
Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP;
Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin EH;
Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES;
Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gietzei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene therapy; human diagnostic and therapeutic polynucleotide; dithp
                    New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human
                                                                                                                         WPI; 2004-329368/30.
N-PSDB; ACN42434.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2004023973-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-NOV-2004
                                                                                                                                                                                                                           Patury S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-SEP-2002; 2002US-0410259P
12-SEP-2002; 2002US-0410260P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABM83782;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polypeptides of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (INCY-) INCYTE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-SEP-2003; 2003WO-US028227.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13;
                                                                                                                                                                                                                       Kwong M, E
S, Shi X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 УЕКУГСЕЕХУКАУ 13
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                                                                                                                                                                                                                           Policky JL,
, Suarez CJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 6;
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                                                                                                                                                                                                                                                              Gietzen D;
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RESULT 11
ABM83781
ID ABM83781
AC ABM83
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                         Schmidt JP, Wright RJ, Bruns CM, Marjanovic MM, Shen F;
Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV;
Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP;
Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin EH;
Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES;
Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gietze
Patury S, Shi X, Suarez CJ;
New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy o
                                                                                                                          WPI; 2004-329368/30.
N-PSDB; ACN42433.
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12-SEP-2002; 2002US-0410260P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human diagnostic and therapeutic pprotein SEQ ID NO:4030
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 609 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-SEP-2003; 2003WO-US028227
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   in gene mapping
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (INCY-) INCYTE CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
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13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page; 190pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human diagnostic and therapeutic polynucleotide; dithp
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Stuve LL;
"UA, Kirton ES;
"I. Gietzen D;
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in gene therapy or

Claim 27; Page; 190pp; English

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New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders in continuous.
                                                                                                                                                                                                                                          Schmidt JP, Wright RJ, Bruns CM, Marjanovic MM, Shen F; Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder L Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP; Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gersti Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirt Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Patury S, Shi X, Suarez CJ;
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12-SEP-2002; 2002US-0410260P
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Pred. No. 0.024;
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                                                                                                                                                                                                                                                                                                                                    Stuve LL;
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                                                                                                                                                                                                                              New human metal binding proteins (MBP), useful for diagnosing, treating and preventing diseases or conditions associated with the aberrant MBP expression e.g. cancer, AIDS, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                         N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-MAR-2003; 2003US-0457538P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MBP; metal binding protein; cytostatic; antiarteriosclerotic; anti-HIV; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; transgenic; human.
                                                                                                                                                                              Claim
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DB; ADT08177.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Jackson AA,
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The invention relates to novel human metal binding proteins (MBP) and encoding polynucleotides. The MBPs can be expressed by standard recombinant methodology. The polypeptides and polynucleotides are useful in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of MBP, such as cell

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RESULT 14
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Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV;
Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP;
Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstin EH;
Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES
Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gietz,
Patury S, Shi X, Suarez CJ;
                                                                                                                                                                                             New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosting a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy of in gene mapping.
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N-PSDB; ACN42430.
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                                                                                                   Claim 27; Page; 190pp; English.
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Pred. No.
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                                                                                                                                                                                                                                               in gene therapy or
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The invention relates to novel diagnostic and therapeutic polynucleotides

The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A

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ARESULT 15
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ALD ABM3783
AC ABM837
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV;
Harthshorne TA, Suchorolski MT, Altus CM, Pitts SJ, Elder LV;
Mooney EM, Delegeane AM, Panesar IS, Banville SC, Reddy TP;
Stevens KA, Blanchard JL, Panesar SR, Wang X, Au AP, Gerstin EH;
Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES;
Xu Y, Kwong M, Policky JL, Hurwitz BL, Ma Y, Jackson JL, Gietzer
                                                                                                                                                              New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or in gene mapping.
                                                                                                Claim 27; Page; 190pp; English.
                                                                                                                                                                                                                                                                                                                                          WPI; 2004-329368/30.
N-PSDB; ACN42435.
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12-SEP-2002; 2002US-0410260P
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S, Shi X,
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Policky JL,
Suarez CJ;
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Suchorolski MT, Altus CM, Pitts SJ, Elder L
Suchorolski MT, Altus CM, Pitts SJ, Elder L
Suchorolski MT, Shenville SC, Reddy TP;
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                                                                                                                                                                                                                                                                              polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorder, developmental disorders, autoimmune/inflammatory disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at www.wipo.int/pct/en/sequences/listing.htm
                                                                                                                                                                                                                                  Sequence 645 AA;
613 YEKYLGEEYVKAV 625
                                                     1 YEKYLGEEYVKAV 13
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A;Molecule type: mRNA A;Residues: 422-690, 'G',692-698 <UZA> A;Cross-references: UNIPARC:UPI00001680AB; EMBL:M12525; NID:g339468; PIDN:AAA61142.1; PII R;MacGillivray, R.T.A.; Mendez, E.; Sinha, S.K.; Sutton, M.R.; Lineback-Zins, J.; Brew, I A;Accession: A94044 A;Molecule type: mRNA A;Residues: 1-698 <YAN> A; Accession: A20981 transferrin precursor [validated] N;Alternate names: siderophilin human ALIGNMENTS

A;Molecule type: DNA
A;Residues: 1-72;291-300 < ADR>
A;Residues: 1-72;291-300 < ADR>
A;Cross-references: UNIPARC:UPI000016B0AC; UNIPARC:UPI000016B0AD; EMBL:M15673
A;Cross-references: UNIPARC:UPI000016B0AC; UNIPARC:UPI000016B0AD; EMBL:M15673
A;Cross-reference, M.; Park, I.; Besmond, C.; Maessen, G.; Trepat, J.S.; Zakin, M.M.; Kal
Biochem. Biophys. Res. Commun. 119, 273-281, 1984
Biochem. Biophys. Res. Commun. 119, 273-281, 1984
A;Title: Molecular cloning and sequence analysis of cDNA for human transferrin.
A;Reference number: A32739; MUID:84153910; PMID:6322780
A;Accession: A32739
A;Accession: A32739 A;Molecule type: DNA
A;Residues: 73-263,'E',265-328,'N',330-562 <PAR>
A;Residues: 73-263,'E',265-328,'N',330-562 <PAR>
A;Residues: 73-263,'E',265-328,'N',330-562 <PAR>
A;Residues: 73-263,'E',265-328,'N',330-562 <PARS
A;Adrian, G.S.; Korinek, B.W.; Bowman, B.H.; Yang, F.
Gene 49, 167-175, 1986
A;Title: The human transferrin gene: 5' region contains conserved sequences which match A;Reference number: A29090; MUID:87192006; PMID:3106157
A;Reference number: A29090; MUID:87192006; PMID:3106157 A;Cross-references: UNIPROT:P02787; UNIPARC:UPI000002F089; EMBL:M12530; NID:g339452; PID:A;Note: the authors translated the codon CAA for residue 203 as Glu R;MacGillivray, R.T.A.; Mendez, E.; Shewale, J.G.; Sinha, S.K.; Lineback-Zins, J.; Brew, J. Biol. Chem. 258, 3543-3553, 1983
A;Title: The primary structure of human serum transferrin. The structures of seven cyanoc A;Reference number: A92417; MUID:83160878; PMID:6833213 C;Species: Homo sapiens (man)
C;Date: 15-Oct.1982 #sequence revision 30-Sep-1993 #text\_change 09-Jul-2004
C;Accession: A20981; A92417; Ā94044; A29090; A32739; I51959; I63133; I54011; I68160; A03
R;Yang, F; Lum, J.B.; McGill, J.R.; Moore, C.M.; Naylor, S.L.; van Bragt, P.H.; Baldwin
Proc. Natl. Acad. Sci. U.S.A. 81, 2752-2756, 1984
A;Title: Human transferrin: cDNA characterization and chromosomal localization.
A;Reference number: A20981; MUID:84194084; PMID:6585826
A;Contents: variant C R;Park, I.; Schaeffer, E.; Sidoli, A.; Baralle, F.E.; Cohen, G.N.; Zakin, M.M. Proc. Natl. Acad. Sci. U.S.A. 82, 3149-3153, 1985
A;Title: Organization of the human transferrin gene: direct evidence that it originated A;Reference number: A94044; MUID:85216459; PMID:3858812 A; Note: the sequence shown is the predominant electrophoretic genetic variant (C or TfC) A;Molecule type: protein A;Residues: 20-263,'E',265-328,'N',330-379,'SD',382-435,'D',437-557,'T',559-560,'P',562-A;Cross-references: UNIPARC:UPI0000174483

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A; Restatues: 1-090 KRES9
A; Cross-references: UNIPARC:UPI000002F089; GB:S95936; NID:9248647; PIDN:AAB22049.1; PID:
A; Cross-references: UNIPARC:UPI000002F089; GB:S95936; NID:9248647; PIDN:AAB22049.1; PID:
Proc. Natl. Acad. Sci. U.S.A. 86, 7260-7264, 1989
A; Title: Changes in brain gene expression shared by scrapie and Alzheimer disease.
A; Reference number: 148174; MUID:89386721; PMID:2780570
A; Accession: I63133
A; Status: translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 636-696 KRE2>
A; Cross-references: UNIPARC:UPI000016B13C; GB:M26641; NID:g339988; PIDN:AAA61233.1; PID:
A; Schaeffer, E.; Lucero, M.A.; Jeltsch, J.M.; Py, M.C.; Levin, M.J.; Chambon, P.; Cohen, Gene 56, 109-116, 1987
A; Title: Complete structure of the human transferrin gene. Comparison with analogous chi
A; Reference number: 15401; MUID:88056305; PMID:3678832
A; Gross-references: UNIPARC:UPI000016B0AC; GB:M17611; NID:g339480; PIDN:AAA61147.1; PID:
A; Accession: 168160
A; Status: translated from GB/EMBL/DDBJ
A; Molecule type: DNA
A; Residues: 546-698 KRE4>
A; Molecule type: DNA
A; Residues: 1546198 KRE4>
A; Molecule type: DNA
A; Residues: S64-698 KRE4>
C; Comment: Each of the two repetitive domains binds a ferric ion and a bicarbonate anion C; Generics:
C; Generics:
transferrin precursor - rabbit
C;Species: Oryccolagus cuniculus (domestic rabbit)
C;Date: 30-Sep-1993 #sequence revision 30-Sep-1993 #text_change 22-Jun-1999
C;Accession: S16246; A61239; C61573; S00335; S02694; A26504; S14853
R;Banfield, D.K.; Chow, B.K.C.; Funk, W.D.; Robertson, K.A.; Umelas, T.M.; W.Biochim. Biophys. Acta 1089, 262-265, 1991
A;Title: The nucleotide sequence of rabbit liver transferrin cDNA.
A;Reference number: S16246; MUID:91274362; PMID:2054387
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A;Gene: GDB:TF
A;Gross-references: GDB:120432; OMIM:190000
A;Map position: 3g21-3g21
A;Introns: 15/1; 72/3; 119/1; 168/1; 212/2; 231/1; 290/3; 350, C;Function:
C;Function:
A;Description: binds iron for delivery into cells
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron transport; metal
C;Keywords: duplication; glycoprotein; iron transport; metal
F;1-19/Domain: signal sequence #status predicted <SIG:
F;1-19/Domain: signal sequence #status experimental <MAT>
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A;Title: A cloned gene for human transferrin.
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A;Title: The complete amino acid sequence of human serum transferrin.
A;Reference number: A93911, MUID:82222166; PMID:6953407
A;Contents: annotation; disulfide bonds
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A; Residues: 1-698 < RES>
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A;Accession: I51959
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; 72/3; 119/1; 168/1; 212/2; 231/1; 290/3; 350/1; 401/3; 433/1; 444/1; 4:
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C;Species: Sus scrofa domestica (domestic pig)
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 17-Feb-1994 #sequence revision 17-Feb-1994 #text_change 09-Jul-2004
C;Accession: A45543; S24173
R;Alexander, L.J.; Levine, W.B.; Teng, C.T.; Beattie, C.W.
Anim. Genet. 23, 251-256, 1992
A;Title: Cloning and sequencing of the porcine lactoferrin cDNA.
**Pafarence number: A45543; MUJD:92367939; PMID:1503259
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R;Chung, M.C.M.; Chan, S.L.; Shimizu, S.
Int. J. Biochem. 23, 609-616, 1991
A;Title: Purification of transferrins and lactoferrin using A;Reference number: A61573; MUID:91293379; PMID:2065820
A;Accession: C61573
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A;Residues: 482-515,'V',517-544 <EVA>
A;Cross-references: UNIPARC:UPI00001744A9
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A;Title: Evidence for a single glycan moiety in rabbit serum transferrin A;Reference number: S02694; MUID:89005676; PMID:3169252
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A; Residues: 19-45,'S',47-48,'Y',50 <GOD>
A; Cross-references: UNIPARC:UPI00001744A8
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A;Title: Isolation, characterization and N-terminal amino-acid sequence of rabbit transfe A;Reference number: $00335; MUID:88209278; PMID:3365331
A;Accession: $00335
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A;Residues: 19-26,'X',28-36,'X',38-53 <CHU>
A;Cross-references: UNIPARC:UPI00001744A7
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A; Residues: 19-36 < PIE>
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A;Title: Iron carrier proteins facilitate engraftment of A;Reference number: A61239; MUID:91191584; PMID:2013104
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Best Local :
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2; Mismatches
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Pred. No. 0.063;
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A;Experimental source: mammary gland
A;Pote: sequence excracted from NCBI backbone (NCBIN:111151, NCBIP:111153)
R;Lydon, J.P.; O'Malley, B.R.; Saucedo, O.; Lee, T.; Headon, D.R.; Conneely, O.M.
R;Lydon, J.P.; O'Malley, B.R.; Saucedo, O.; Lee, T.; Headon, D.R.; Conneely, O.M.
Biochim. Biophys. Acta 1132, 97-99, 1992
A,Title: Nucleotide and primary amino acid sequence of porcine lactoferrin.
A;Reference number: S24173
A;Hocession: S24173
A;Hocession: S24173
A;Hocession: S24173
A;Holecule type: mRNA
A;Residues: 111,'W',13-50,'I',52-84,'G',86-120,'L',121-130,'I',132-282,'S',284-571,'Q',
A;Cross-references: UNIPARC:UPI000016C6E2; EMBL.M92089; NID:g164613; PIDN:AAA31102.1; PI
A;Experimental source: mammary gland
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein; iron; iron binding; metalloprotein; milk
F;1-19/Domain: signal sequence #status predicted <AMT'
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F;354-68/Megion: antimicrobial
F;354-69/Momain: transferrin repeat homology <TRH1>
F;36-62,38-53,129-212,171-187,184-195,245-259,362-394,372-385,419-698,439-661,471-546,49
F;400,447,540,609/Binding site: iron (Asp. Tyr. Tyr. His) #status predicted
F;407/Binding site: carbonate (Arg) #status predicted
F;408/Megion: antimicrobial
transferrin precursor - rat
N,Alternate names: lung-derived growth factor; siderophilin
C;Species: Rattus norvegicus (Norway rat)
C;Date: 16-Peb-1995 #sequence revision 12-May-1995 #text change 09-Jul-2004
C;Accession: S49163; S54980; A30014; A14679; A53289; A30512; I52203
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C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein
F;359-696/Domain: transferrin repeat homology <TRH2>
F;252,300,387,495,564/Binding site: carbohydrate (Asn) (covalent)
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A;Title: Characterization of the goat lactoferrin cDNA:
A;Reference number: JC2323; MUID:94380047; PMID:8093048
A;Accession: JC2323.
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C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 07-May-1999
C;Accession: JC2323
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A;Molecule type: mRNA
A;Residues: 1-703 <AL
A;Cross-references: U
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R;Le Provost, F.; Nocart, M.; Guerin, G.; Martin, P. Biochem. Biophys. Res. Commun. 203, 1324-1332, 1994
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A; Residues: 1-708 < LEP >
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                                                                                                                                                                                                                                                                                                                                                                                                    YEKYLGEEYVKAV 13
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76.9%;
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Pred. No. 0.21;
1; Mismatches
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Pred. No. 0.14;
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Matches

Similarity 9; Conserv

Mismatches

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Indels

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A; Experimental source: lung
A; Note: sequence modified after extraction from NCBI backbone
A; Note: sequence extracted from NCBI backbone (NCBIP:86115, NCBIP:86116, NCBIP:86114)
R; Purves, L.R.; Purves, M.; Linton, N.; Brandt, W.; Johnson, G.; Jacobs, P.
Biochim. Biophys. Acta 966, 318-327, 1988
A; Title: Properties of the transferrin associated with rat intestinal mucosa.
A; Reference number: A30512; MUID:88327006; PMID:3046665
A; Molecula Francession: A30512
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A;Residues: 518-687, Dy, 689-692, TA', 695 < HUG>
A;Residues: 518-687, Dy, 689-692, TA', 695 < HUG>
A;Cross-references: UNIPARC:UPI0000170B4C; GB:M27966; NID:g207439; PIDN:AAA42267.1; PID: R;Schreiber, G.; Dryburgh, H.; Millership, A.; Matsuda, Y.; Inglis, A.; Phillips, J.; Ed J. Biol. Chem. 254, 12013-12019, 1979
A;Title: The synthesis and secretion of rat transferrin.
A;Reference number: A14679; MUID:80049855; PMID:500689
A;Accession: A14679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Molecule type: protein
A;Residues: 20-30;639-643,'KD',646,'LKACD' <PUR>
A;Residues: 20-30;639-648,'KD',646,'LKACD' <PUR>
A;Cross-references: UNIPARC:UPI0000177C53
A;Cross-references: UNIPARC:UPI0000177C53
R;Aldred, A.R.; Howlett, G.J.; Schreiber, G.
R;Aldred, A.R.; Howlett, G.J.; Schreiber, G.
Biochem. Biophys. Res. Commun. 122, 960-965, 1984
A;Title: Synthesis of rat transferrin in Escherichia coli containing a recombinant bacte
A;Reference number: I52203; MUID:84307580; PMID:6236811
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A;Cross-references: UNIPARC:UPI0000167A8E; EMBL:X77158; NID:g510195; PIDN:CAA54403.1; PI R;Huggenvik, J.I.; Idzerda, R.L.; Haywood, L.; Lee, D.C.; McKnight, G.S.; Griswold, M.D. Endocrinology 120, 332-340, 1987
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B;Othem. J. 307, 47-55, 1995
A;Title: Rat mammary-gland transferrin: nucleotide sequence, A;Reference number: S54980; MUID:95234054; PMID:7717992
A;Accession: S54980
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A;Residues: 89,'Y',91,'A',93-99,'V',101-102;'N',233,'AN',236-243;401-406,'N',408 <CAV>
A;Cross-references: UNIPARC:UPI00000E6F28; UNIPARC:UPI00000E76D0; UNIPARC:UPI00000E7E7F
                                                                                                                                                                                                                                                                                                                A;Molecule type: mRNA
A;Residues: 7-25,'X',27-56,'A',58-64,267-295 <RES>
A;Cross-references: UNIPARC:UP100000E5C48; GB:M26113;
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A; Residues: 20-47 < SCHs
A; Residues: 20-47 < SCHs
A; Cross-references: UNIPARC: UPI0000177C51
A; Cross-references: UNICOLSON, G.L.
J. Cell. Biochem. 47, 261-271, 1991
A; Title: Lung-derived growth factor that stimulates the
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A;Accession: A53289
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                                                                                                                                                                                               Superfamily: transferrin; transferrin repeat homology;
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                                                                                                                transferrin repeat homology <TRH1>
75.0%;
Score 51; D
Pred. No. 1;
                                     DB 2;
                                         Length 695;
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A;Molecule type: mRNA
A;Residues: 1-144,'V','146-163,'PP',166-339,'A',341-438,'Y',440-513,'R',515-708 <PII>A;Residues: 1-144,'V','146-163,'PP',166-339,'A',341-438,'Y',440-513,'R',515-708 <PIIN:CAA40366.1; PI
A;Cross-references: UNIPARC:UPI000016C335; EMBL:X57084; NID:g505; PIDN:CAA40366.1; PI
R;Fierce, A.; Colavizza, D.; Benaissa, M.; Maes, P.; Tartar, A.; Montreuil, J.; Spik,
Eur. J. Biochem. 196, 177-184, 1991
A;Title: Molecular cloning and sequence analysis of bovine lactotransferrin.
A;Reference number: S14110; MUID:91160550; PMID:2001696
A;Accession: S14110
A;Accession: S14110
A;Accession: S14110
A;Cross-references: UNIPARC:UPI000017448B; EMBL:X57084
A;Accession: S18517
A;Accession: S18517
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C;Species: Bos primigenius taurus (cattle)
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997 #text change 09-Jul-2004
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997; S18518; S13881;
C;Accession: 145919 #sequence revision 21-Nov-1997; S18518; S13881;
R;Tsang, T.C.; Burns, D.K.; Wang, F.; Pan, Y.
RASEB J. 6, 233, 1991
A;Title: Cloning of a 80-kD advanced glycosylation end product (AGE) binding A;Reference number: 145919
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A;Title: Purification and characterization of a carbonic A;Reference number: I47228; MUID:93099129; PMID:1463741
A;Accession: I47228
A;Status: preliminary; translated from GB/EMBL/DDBJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               submitted to the EMBL Data Library, November 1990 A;Reference number: $14674 A;Accession: $14674
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A;Cross-references: UNI
R;Pierce, A.
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C;Superfamily: transferrin; transferrin repeat homo
C;Keywords: duplication
F;20-350/Domain: transferrin repeat homology <TRH1>
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A; Residues: 1-704 < ROU>
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                                                  A;Molecule type: protein
A;Residues: 20-35;82-114;148-163,'PP',166-178,'V','P';183-190;205-212;230-239;304-339;59
A;Cross-references: UNIPARC:UPI000017448C; UNIPARC:UPI000017448D; UNIPARC:UPI000017448E;
493; UNIPARC:UPI0000174494
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Best Local
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8; Conserv
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180,
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Pred. No.
75-84,
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F;359-696/Domain: transferrin repeat homology <TRH2>
F;28-64,134-217,176-192,119-200,189-202,200-264,367-399,377-390,424-703,444-666,476-551,5
F;38-55/Disulfide bonds: #status predicted
F;39,111,211,272/Binding site: iron (Asp, Tyr, Tyr, His) #status experimental
F;79,111,211,272/Binding site: iron (Asp, Tyr, Tyr, His) #status experimental
F;140/Binding site: carbonate (Arg) #status experimental
F;252,300,387,495,564/Binding site: carbohydrate (Asn) (Covalent) #status predicted
F;414,452,545,614/Binding site: iron (Asp, Tyr, Tyr, His) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: protein
A;Rosidues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Residues: 20-25;302-308;359-366,'X',368-376,'X',378 <SHI>
A;Cross-references: UNIPARC:UPI00001744A1; UNIPARC:UPI00001744A2; UNIPARC:UPI00001744A3
C;Superfamily: transferrin; transferrin repeat homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPARC:UPI0000475A8
R;Shimazaki, K.; Tanaka, T.; Kon, H.; Oota, K.; Kawaguchi, A.; Maki, Y.; Sato, T.
J. Dairy Sci. 76, 946-955, 1993
A;Title: Separation and characterization of the C-terminal half molecule of bovine A;Reference number: A56659; MUID:93253156; PMID:8486845
A;Accession: A56659
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A;Residues: 20-47;59-66;132-139;256-277;278,305-332;343-351;361-363;586,587-589;598-619
A;Cross-references: UNIPARC:UPI0000174493; UNIPARC:UPI0000174497; UNIPARC:UPI0000174498;
49D; UNIPARC:UPI000017449E
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A;Molecule type: mRNA
A,Residues: 1-65,'PG',68-296,'S',298-339,'A',341-708 <GOO>
A;Cross-references: UNIPARC:UPI0000174495; GB:M63502
A;Note: the authors translated the codon CCG for residue 66
R;Mead, P.E.; Tweedie, J.W.
Nucleic Acids Res. 18, 7167, 1990
A;Title: cDNA and protein sequence of bovine lactoferrin.
A;Reference number: S13097; MUID:91088328; PMID:2263492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Keywords: duplication; glycoprotein; iron; iron binding; metalloprotein; milk F;1-19/Domain: signal sequence #status predicted <SIG> F;20-708/Product: lactotransferrin #status experimental <MAT>
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A; Residues: 36-60 < BEL>
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A;Title: Identification of the bactericidal domain of lactoferrin. A;Reference number: S21756; MUID:92287941; PMID:1599934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Rejman, J.J.; Hegarty, H.M.; Hurley, W.L.
Comp. Biochem. Physiol. B 93, 929-934, 1989
A;Title: Purification and characterization of bovine lactoferrin
A;Reference number: PL0148; MUID:90031466; PMID:2805645
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A;Residues: 28-33,'DS',36-38,'P',40-708 <MEA>
A;Cross-references: UNIPARC:UPI0000174496; EMBL:X54801
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A;Residues: 28-38,'P',40-86,'C',88-708 <ME3>
A;Cross-references: UNIPARC:UPI000017449F; EMBL:X54801
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A;Reference number: S13881
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              F;36-60/Region: antimicrobial
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                                                                                                                                                                                                              ;482/Binding
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                                                                     Local Similarity
nes 9; Conserv
YEKYLGEEYVKAV 13
                                                                                                                                                                                                                 site: carbonate (Arg) #status
                                                                         Conservative
                                                                                               75.0%;
69.2%;
                                                                     Pred. No. 1;
2; Mismatches
                                                                                                                                        Score 51;
                                                                                                                                                                                                                 experimental
                                                                                                                                           DB
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                                                                                                                                           Length
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NAIternate names: Iactorerrr.
C;Species: Homo sapiens (man)
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997 #text change 08-Dec-2000
C;Date: 31-Mar-1992 #sequence revision 21-Nov-1997 #text change 08-Dec-2000
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A;Title: Synthesis of transferrin and transferrin mRNA in bovine A;Reference number: A60166; MUID:90366647; PMID:2393686
A;Accession: A60166
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C;Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 21-Nov-1997
C;Accession: A60166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Stallard, B.J.; Collard, M.W.; Griswold, M.D. Mol. Cell. Biol. 11, 1448-1455, 1991
A;Title: A transferrinlike (hemiferrin) mRNA is expressed A;Reference number: A39684; MUID:91141493; PMID:1996102
A;Accession: A39684
                                       submitted to the EMBL Data A;Reference number: G06820 A;Accession: G01394
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C;Keywords: glycoprotein; testis
F;1-215/Domain: transferrin repeat homology #status atypical <TRH2>
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C;Comment: The authors designate this protein as transferrin. However, the closely resembles the C-terminal duplication in transferrin. This protein
A;Status: preliminary; translated A;Molecule type: mRNA
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A; Residues: 1-215 <GIL>
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184 YDSYLGDDYVRAM 196
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53.8%;
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Pred. No. 0.98
5; Mismatches
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Pred. No. 0.99;
                         from GB/EMBL/DDBJ
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0.98;
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A; Residues: 1-148,'T',150-422,'C',424-711 <REY>
A; Cross-references: UNIPARC: UPI000015C582; EMBL:X53961; NID:g34415; PIDN:CAA37914.1; PID R; Feng, C.T.; Liu, Y.; Yang, N.; Walmer, D.; Panella, T.

MOI. Endocrinol. 6, 1969-1981, 1992
A; Title: Differential molecular mechanism of the estrogen action that regulates lactofer A; Reference number: A45401; MUID:93125571; PMID:1480183
A; Accession: A45401
A; MOICCONTAINS AND ACCESSION: A45401
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R;Powell, M.J.; Ogden, J.E.
Nucleic Acids Res. 18, 4013, 1990
A;Title: Nucleotide sequence of human lactoferrin cDNA.
A;Reference number: S10324; MUID:90326549; PMID:2374734
A;Accession: S10324
                            R;Houen, G.; Hoegdall, E.V.; Bark
Eur. J. Biochem. 241, 303-308, 19
A;Title: Lactoferrin: similarity
                                                                                                                                         A;Molecule type: protein
A;Residues: 20-140,142-169,171-203,'L',205,'K',207-208,'K',210-385,'Q',387-391,'W',393-40
A;Cross-references: UNIPARC:UP10000174489
A;Note: this is the final paper in a series
                                                                                                                                                                                                                                                                                      R;Metz-Boutigue, M.H.; Jolles, J.; Mazurier, J.; Schoentg
Eur. J. Biochem. 145, 659-666, 1984
A;Title: Human lactotransferrin: amino acid sequence and
A;Reference number: A31000; MUID:85076667; PMID:6510420
A;Accession: A31000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Modecule type: mRNA
A; Residues: 436-487,'A', 489-711 < RAD>
A; Residues: 436-687,'A', 489-711 < RAD>
A; Cross-references: UNIPARC:UPI000016ABE2; EMBL:M18642; NID:g186815; PIDN:AAA86665.1;
R; Panella, T.J.; Liu, Y.; Huang, A.T.; Teng, C.T.
Cancer Res. 51, 3037-3043, 1991
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R;Rado, T.A.; Wei, X.; Benz Jr., E.J.
Blood 70, 989-993, 1987
A;Title: Isolation of lactoferrin cDNA from a human myeloid library and expression of A;Reference number: S07160; MUID:88001031; PMID:3477300
A;Accession: S07160
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Biochem. J. 276, 349-355, 1991
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Nucleic Acids Res. 18, 5288, 1990
A;Title: Complete nucleotide sequence of human mammary gland lactoferrin.
A;Reference number: S11228; MUID:90384839; PMID:2402455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 3-701, 'SWKPVN' < PAN>
A; Cross-references: UNIPARC: UPI000014B632
A; Experimental source: normal breast tissue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Title: Polymorphism and altered methylation of the lactoferrin gene in normal leukocyt
A;Reference number: A61169; MUID:91235214; PMID:1674448
A;Accession: A61169
A;Status: not compared with conceptual translation
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A; Residues: 20-28, 'X', 30-31 <ST2>
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A; Residues: 20-31 <ST1>
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A; Residues: 3-711 < POW>
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A; Residues: 1-15 < TEN>
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                                                                                                    Barkholt, V.; Norskov,
to diamine oxidase and:97054624; PMID:8898921
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  compared with conceptual translation
                                purification
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           F.; Legrand, D.; Spik, G.;
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A; Reference number: S74119; MUID: 97054624;

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A; McCession: Franslation not shown
A; Status: translation not shown
A; Residues: 1-696 < RAL.
A; Cross-references: UNIPROT: P09571; UNIPARC: UPI00001130C2; EMBL: X12386; NID: g2126; PIDN:
A; Cross-references: UNIPROT: P09571; UNIPARC: UPI00001130C2; EMBL: X12386; NID: g2126; PIDN:
A; Cross-references: UNIPARC: Toom porcine gastric mucosa: comparison with porcine garacterine from porcine gastric mucosa: comparison with porcine garacteriners and source; protein
A; Recidues: 1-8, 'X', 10-11, 'X', 13-15 < RA2>
A; Cross-references: UNIPARC: UPI0000174485
A; Cross-references: UNIPARC: UPI0000174485
A; Cross-references: UNIPARC: Shimizu, S.
Int. J. Biochem. 23, 609-616, 1991
A; Title: Purification of transferrins and lactoferrin using DEAE Affi-Gel Blue.
A; A; Cross-references: UNIPARC: UPI000174486
A; Reference number: A61573; MUID: 91293379; PMID: 2065820
A; Rocession: A61573; MUID: 91293379; PMID: 2065820
A; Rocession: A61573; MUID: 91293379; PMID: 2065820
A; Rocession: A61573; MUID: 91293379; PMID: 2065820
C; Supportently: transferrin; transferrin repeat homology
C; Suporded: transferrin; transferrin repeat homology
F; 1-696/Product: transferrin #status predicted MAT>
F; 1-335/Domain: transferrin repeat homology < TRH1>
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C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999
C;Accession: S01384; A60520; A61573
R;Baldwin, G.S.; Weinstock, J.
Nucleic Acids Res. 16, 8720, 1988
A;Title: Nucleotide sequence of porcine liver trans A;Reference number: S01384; MUID:88335629; PMID:341
A;Accession: S01384
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C;Superfamily: transferrin; transferrin repeat homology
C;Superfamily: transferrin; transferrin repeat homology
C;Superfamily: transferrin; transferrin milk
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-711/Product: lactotransferrin #status experimental <MAT>
F;21-356/Domain: transferrin repeat homology <TRH1>
F;310-359/Domain: transferrin repeat homology <TRH2>
F;360-399/Domain: transferrin repeat homology <TRH2>
F;365,39-56,135-218,177-193,190-201,251-265,503-697,595-609/Disulfide bonds: #status e
F;157,498/Binding site: carbohydrate (Asn) (covalent) #status experimental
F;368-400,378-391,425-706,447-669,479-554,513-527,524-537,647-652/Disulfide bonds: #status
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A;Experimental source:
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0:88335629; PMID:3419934
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                                                                                                                                                              Score 47; DB 1;
Pred. No. 4.9;
                                                                                                                                Pred. No. 4.9
2; Mismatches
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C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A28438; A41205
R;Pentecost, B.T.; Teng, C.T.
J. Biol. Chem. 262, 10134-10119, 1987
A;Title: Lactotransferrin is the major estrogen inducible protein of mouse uterine secret A;Reference number: A92596; MUID:87280033; PMID:3611056
A;Accession: A28438
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R;Liu, Y.; Teng, C.T.
J. Biol. Chem. 266, 21880-21885, 1991
A;Title: Characterization of estrogen-responsive mouse lactoferrin promoter.
A;Reference number: A41205; MUID:92042099; PMID:1939212
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N;Alternate names: growth-pronoting factor
C;Species: Equus caballus (domestic horse)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S33761; S022145
R;Carpenter, M.A.; Broad, T.E.
R;Carpenter, M.A.; Broad, T.E.
Biochim. Biophys. Acta 1173, 230-232, 1993
A;Title: The cDNA sequence of horse transferrin.
A;Reference number: S33761; MUID:93277958; PMID:8504171
A;Accession: S33761
                                                                                     A;Cross references: UNIPARC:UPI00001744A5; GB:M74778
C;Superfamily: transferrin; transferrin repeat homology
C;Keywords: duplication; glycoprotein
F;1-19/Domain: signal sequence #status predicted <SIG>F;20-707/Product: lactotransferrin #status predicted <NF;358-695/Domain: transferrin repeat homology <NFH2>
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A; Residues: 1-15 <LIU>
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A; Residues: 20-35, 'X', 37, 'X', 39-40, 'X', 43-44 < YOS>
A; Cross-references: UNIPARC: UPI0000177C56
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A;Cross-references: UNIPROT:P27425; UNIPARC:UPI0000137370; EMBL:M69020; NID:g164242;
A;Experimental source: liver; developmental stage adult
R;Yoshinari, K.; Yuasa, K.; Iga, F.; Mimura, A.
Blochim. Blophys. Acta 1010, 28-34, 1989
A;Title: A growth-promoting factor for human myeloid leukemia cells from horse serum
A;Reference number: S02145; MUID:89076897; PMID:2909248
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A; Residues: 3-707 < PEN>
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8; Conserva
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                                                              site: carbohydrate
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   66.2%;
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   Score 45;
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DB 1;
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C;Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 09-Jul-2004
C;Accession: D64326
C;Accession: D64326
R;Bult, C.J.; White, O.; Olsen, G.J.; Zhou, L.; Fleischmann, R.D.; Sutton, G.G.; Blake, Reich, C.I.; Overbeek, R.; Kirkness, E.F.; Weinstock, K.G.; Merrick, J.M.; Glodek, A.; rson, J.D.; Sadow, P.W.; Hanna, M.C.; Cotton, M.D.; Roberts, K.M.; Hurst, M.A.
Science 273, 1058-1073, 1996
A;Authors: Kaine, B.P.; Bordovsky, M.; Klenk, H.P.; Fraser, C.M.; Smith, H.O.; Woese, (A;Title: Complete genome sequence of the methanogenic archaeon, Methanococcus jannaschii, Reference number: A64300; MUID:96337999; PMID:8688087
A;Accession: D64326
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D64326
                                                                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-334 <KAW>
A;Cross-references: UNIPROT:Q9V1P1; UNIPARC:UPI0000034452; GB:AJ248284; GB:AL096836; NII
A;Experimental source: strain Orsay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;anonymous, Genoscope
submitted to the EMBL Data Library, July 1999
A;Description: Pyrococcus abyssi genome sequence: insights into archaeal chromosome stru
A;Reference number: A75001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  glyceraldehyde 3-phosphate dehydrogenase (gap) PAB0257 - Pyrococcus abyssi (strain Orsay C;Species: Pyrococcus abyssi (strain Orsay C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004 C;Accession: E75153
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F;2-305/Domain: UDPglucose 4-epimerase homology <UDP>
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Search completed: June 13, 2006, 04:20:32 Job time : 15.1912 secs
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                                                                                                                                                                                                                                                                                                           C;Superfamily: glyceraldehyde-3-phosphate dehydrogenase
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A; Residues: 1-305 <BUL>
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C;Species: Methanococcus jannaschii
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Matches
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A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
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A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
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A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Villalon E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
A Halterfield Y.S.N., Touchman J.W., Green E.D., Dickson M.C.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
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"Generation and initial analysis of more than 15,000 full-length human
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01-OCT-1989, sequence version 2.
07-MAR-2006, entry version 84.
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binding globulin)
Name=TF; ORFNames
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Ahearn M.O., Kuldanek S.A., Rajkumar N.,
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Beutler E., Gelbar
Fairbanks V.F.;
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Hershberger C.L., Larson J.L., Arnold B., Rosi
Williams P., Dehoff B., Dunn P., O'Neal K.L.,
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NUCLEOTIDE SEQUENCE.

MEDLINE-88056305; PubMed=3678832; DOI=10.1016/0378-1119(87)90163-6; Schaeffer E., Lucero M.A., Jeltsch J.-M., Py M.-C., Levin M.J., Schaeffer E., Comparison with Chambon P., Cohen G.N., Zakin M.M.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
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integrated into UniProtKB/Swiss-Prot
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rt T., Lee P.L.,
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n E.J., Yi Q.,
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MEDLINE=20392111; PubMed=10931525;
DOI=10.1002/1097-4547(20000815)61:4<388::AID-JNR5>3.0.CO;2-Q;
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MEDLINE=87192006; PubMed=3106157; DOI=10.1016/0378-1119(86)90277-5;
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Lucero M.A., Schaeffer E., Cohen
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Lineback-Zins J., Brew K.;
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MEDLINE=84153910; PubMed=6322780;
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MEDLINE=83160878; PubMed=6833213;
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NUCLEOTIDE SEQUENCE OF 636-696
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                                                                                          Tf C2 variant.";
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07-FEB-2006, entry version 4.
Transferrin variant (Fragment).
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MEDLINE=98434369; PubMed=9760232; DOI=10.1021/bi9812064;
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MEDLINE=98272665; PubMed=9609685; DOI=10.1021/bi980355j;
Macgillivray R.T.A., Moore S.A., Chen J., Anderson B.F.,
Luo Y., Bawley M.C., Smith C.A., Murphy M.E.P., Wang Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Human plasma N-glycoproteome analysis by immunoaffinity subtraction, hydrazide chemistry, and mass spectrometry.";
J. Proteome Res. 4:2070-2080(2005).
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"The complete amino acid sequence of human serum transferrin.";
Proc. Natl. Acad. Sci. U.S.A. 79:2504-2508(1982).
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                     Homo sapiens (Human)
                                                                               24-MAY-2005, integrated into UniProtKB/TrEMBI
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McGillivray R.T.A., Mendez E., Sinha
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Duguid J.R., Bohmont C.W., Liu N.G., Tourtellotte W.
"Changes in brain gene expression shared by scrapie
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   Metazoa;
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07-FEB-2006, entry version 5.
Brain cDNA, clone: QccE-13766, similar to human transferrin (TF),.
Brain cDNA, clone: QccE-13766, similar to human transferrin (TF),.
Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Cercopithecidae; Cercopithecinae; Macaca.
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1;
PROSITE; PS00206; TRANSFERRIN 2;
PROSITE; PS00207; TRANSFERRIN 3;
NUCLEOTIDE SEQUENCE.
PubMed=15944441; DOI=10.1093/molbev/msi187;
Osada N., Hirata M., Tanuma R., Kusuda J.,
                                                                                                                                                                                                                                                                                                                                                    Q4R5M1_MACFA
Q4R5M1;
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PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 2.
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Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases
                                                                                                          NCBI_TaxID=9541;
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GO:0008199; F:ferric iron binding; IEA.
GO:0006679; F:iron ion homeostasis; IEA.
GO:0006626; P:iron ion transport; IEA.
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P19134; O46514;
01-NOV-1990, integrated into UniProtKB/Swiss-Prot.
15-JUL-1999, sequence version 4.

07-MAR-2006, entry version 61.
Serotransferrin precursor (Transferrin) (Siderophi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oryctolágus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporid
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1; 2.
PROSITE; PS00206; TRANSFERRIN 2; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
PROSITE; PS00207; TRANSFERRIN 3; 2.
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"Substitution Rate and Structural Diver
Comparative Analysis Between Human and
Mol. Biol. Evol. 22:1976-1982(2005).
       PROTEIN SEQUENCE OF 20-51 MEDLINE=88209278; PubMed=
                                                                                           "Cloning and structural organisation encoding gene.";
                                                                                                                                             Ghareeb B.A.A., Houdebine L.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   binding globulin).
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GO:0008199; F:ferric iron binding; IEA.
GO:0006879; P:iron ion homeostasis; IEA.
GO:0006826; P:iron ion transport; IEA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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Attribution-NoDerivs License
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                                                                                                                                                                                                                                                                                   PDB; 1JNF; X-ray; PDB; 1TFD; X-ray;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-Plasma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PROTEIN SEQUENCE OF
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                                                                                                                                                                                                                   LinkHub; P19134;
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AF031618;
AF031619;
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AF031613;
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Pfam; PF00405; Transferrin.

PRINTS; PR00422; TRANSFERRIN.

SMART; SM00094; TR FER; 2.

PROSITE; PS00205; TRANSFERRIN 1; 1.

PROSITE; PS00206; TRANSFERRIN 2; 2.

PROSITE; PS00207; TRANSFERRIN 3; 2.

PROSITE; PS00207; TRANSFERRIN 3; 2.
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Bailey S., Evans R.W., Garratt R.C., (
Horsburgh C., Jhoti H., Lindley P.F.,
"Molecular structure of serum transfe:
Biochemistry 27:5804-5812(1988).
                                                                                                                                                                                                                                                                                                                                  InterPro; IPR001156; Peptidase_S60; PANTHER; PTHR11485; Peptidase_S60; Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SIMILARITY: Belongs to the transferrin family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -!- SUBUNIT: MONOMER.
-!- SUBCELLULAR LOCATION: Secreted protein.
-!- TISSUE SPECIFICITY: Expressed by the liver and
-!- MISCELLANEOUS: The peptidase S60 domains do not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
Sarra R., Garratt R.C., Gorinsky B., Jhoti H., Lindley P.F.;
"High-resolution X-ray studies on rabbit serum transferrin:
preliminary structure analysis of the N-terminal half-molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=89005676; PubMed=3169252; DOI=10.1016/0014-5793(88)80221-7; Evans R.W., Aitken A., Patel K.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Isolation, characterization and N-terminal rabbit transferrin.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                function as the catalytic residues are missing SIMILARITY: Belongs to the transferrin family.
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Mydin A., Si
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Best Local S
Matches 10
                                 HSSF; QBTCD2; 1B0L.

SMR; Q6YST2; 1-304.

GO; GO:0005576; C:extracellular region; IEA.

GO; GO:0005576; C:extracellular region; IEA.

GO; GO:000519; F:ferric iron binding; IEA.

GO; GO:0006879; P:iron ion homeostasis; IEA.

GO; GO:0006826; P:iron ion transport; IEA.

InterPro; IPR001156; Peptidase S60.

PANTHER; PTHR11485; Peptidase S60; 1.

Pfam; PF00405; Transferrin; 1.

PRINTS; PR00422; TRANSFERRIN 1; 1.

PROSITE; PS00206; TRANSFERRIN 2; 1.

PROSITE; PS00206; TRANSFERRIN 2; 1.

PROSITE; PS00206; TRANSFERRIN 3; 1.
Query Match
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(ST2 PIG PRELIMINARY; PR
(OFYST2; PIG PRELIMINARY; PR
(OFYST2; OFYST2; OFYST2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE.
Shinkai H., Morozumi T., Toki D., Muneta Y., Awata T., U. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sus.
NCBI_TaxID=9823;
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HSSP; QBTCD2; 1B0L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sus scrofa (Pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
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YEKYLGADYIKAV 675
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76.9%;
82.4%; Score 56;
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Pred. No. 1.
                                                 16C0B1675D8722A8 CRC64;
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                                                                                                                                                                                               TRFL PIG SIMULAND.
P14632; Q29557;
P14632; Q29557;
01-APR-1990, integrated into UniProtKB/Swiss-Prot.
15-DEC-1998, sequence version 3.
07-FEB-2006, entry version 46.
'TOFFORTABEFERRIN PRECURSOR (EC 3.4.21.-) (Lactofe)
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN_1; 2.
PROSITE; PS00206; TRANSFERRIN_2; 2.
PROSITE; PS00207; TRANSFERRIN_3; 2.
SEQUENCE 694 AA; 76466 MW; 4005
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GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0006879; F:iron ion homeostasis; IEA
GO; GO:0006826; F:iron ion transport; IEA.
InterPro; IPR001116; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
PEAM; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mammalia; Eutheria;
Sciuridae; Xerinae;
                         NUCLEOTIDE SEQUENCE [MRNA].
MEDLINE=92379101; PubMed=1511016; DOI=10.1016/0167-4781(92)90061-4;
                                                                                                                                                                  Sus scrofa (Pig).
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rinaudo J.A.S., Gerin J.L.;
Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
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                                                                                                NCBI_TaxID=9823;
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              O'Malley B.R.,
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Euarchontoglires; Glires; Rodentia; Sciurognathi;
Marmotini; Marmota.
                                                                                                                                               Chordata; Craniata; Vertebrata; Euteleostomi; Laurasiatheria; Cetartiodactyla; Suina; Suida
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84.6%;
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(EC 3.4.21.-) (Lactoferrin)
              Saucedo
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Pred. No. 2
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2.3;
           Lee T.,
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              Hutchess T.W., Magnuson J.S., Yip T.-T.;

Rapid purification of poroine colostral whey lactoferrin by affinity chromatography on single-stranded DNA-agarose. Characterization, amino acid composition and N-terminal amino acid sequence.";

Biochim. Biophys. Acta 999:323-329 (1989)

L. Hiochim. Biophys. Acta 999:323-329 (1989)

C. -I- FUNCTION: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate.

C. -I- FUNCTION: The lactotransferrin peptidase S60 domain 1 functions as a serine protease that cuts arginine rich regions. This function contributes to the antimicrobial activity (By similarity).

C. -I- CATALYTIC ACTIVITY: Preferential at -Arg-Ser-Arg-Arg-|- and -Arg-Ser-Arg-|-, and of Z-Phe-Arg-|-aminomethylcoumarin.
              BINDING
BINDING
                                                                                                                                                                                                                                                                                                                                                   DOMAIN
DOMAIN
ACT_SITE
ACT_SITE
METAL
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SMART; SM00094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN_2; 2.
PROSITE; PS00206; TRANSFERRIN_3; 1.
PROSITE, PS00207; TRANSFERRIN_3; 1.
                                                                                                                                               BINDING
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METAL
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METAL
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EMBL; M81327; AAA31059.1; -;
PIR; A45543; A45543.
HSSP; Q9TUM0; 10TZ.
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MEDLINE=92367939; PubMed=1503259;
Alexander L.J., Levine W.B., Teng C.T.,
"Cloning and sequencing of the porcine
Anim. Genet. 23:251-256(1992).
                                                                                BINDING
                                                                                                                          BINDING
                                                                                                                                                                                                                                                                                                           METAL
                                                                                                                                                                                                                                                                                                                                   METAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Serine protease; Signal; SIGNAL 1 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR001156; Peptidase S60. PANTHER; PTHR11485; Peptidase S60; Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -!- SUBCELLULAR LOCATION: Secreted protein.
-!- MISCELLANEOUS: The second peptidase 560 domain does not protease function as the catalytic residues are missing.
-!- SIMILARITY: Belongs to the transferrin family.
-!- SIMILARITY: Contains 2 peptidase 560 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROTEIN SEQUENCE OF 20-49. MEDLINE=90105538; PubMed=2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         t protein sequencing; Glycoprotein; Hydrolase; Ion transport; Iron transport; Metal-binding; Protease; Repeat;
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GO; GO:0008879; P:iron ion homeostasis; IEA.
GO; GO:0006879; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase_S60.
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HSSP; P24627; INKX.
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GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0006879; P:iron ion homeostasis; IEA.
GO; GO:0006826; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PIAM; F. TRANSFERRIM:

PRINTS; PRO0422; TRANSFERRIM:
SMART; SM00094; TR_FER; 2.
SMART; SM00095; TRANSFERRIN 1; 2.
PROSITE; PS00206; TRANSFERRIN 2; 2.
PROSITE; PS00206; TRANSFERRIM 3; 1.
PROSITE; PS00207; TRANSFERRIM 3; 1.
PROSITE; PS00207; TRANSFERRIM 3; 1.
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Q7YS20;
01-OCT-2003,
01-OCT-2003,
07-FEB-2006,
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SMART; SMO0094; TR FER; 2.
PROSITE; PS00205; TRANSFERRIN 1;
PROSITE; PS00206; TRANSFERRIN 2;
PROSITE; PS00207; TRANSFERRIN 3;
PROME NO PROME NO PROPERTY NO PROPER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE=Mammary gland;
Pecorini C., Fogher C., Baldi A.;
Submitted (MAY-2003) to the EMBL/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9823;
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Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sus scrofa (Pig).
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                                              sequence version entry version 16
                                                                                                                integrated into UniProtKB/TrEMBL
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76.9%;
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Pred. No. 2.3;
                                                                                                                                                                                              PRT;
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RESULT 12
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PRINTS; PR00422; TRANSFERRIN.

PR SMART; SM00094; TR FER; 2.

PROSITE; PS00205; TRANSFERRIN 1; 2.

PROSITE; PS00205; TRANSFERRIN 2; 2.

PROSITE; PS00207; TRANSFERRIN 2; 2.

PROSITE; PS00207; TRANSFERRIN 3; 1.

NON TER 1

SEQUENCE 704 AA. 77
        MEDLINE-94380047; PubMed-8093048;

A le Provost F., Nocart M., Guerin G., Martin P.;

T "Characterization of the goat lactoferrin CDNA. Assignment relevant locus to bovine Ul2 syntemy group.";

L Biochem. Biophys. Res. Commun. 203:1324-1332(1994).

-!- FUNCTION: Transferrins are iron binding transport prote can bind two Fe(3+) ions in association with the bindin anion, usually bicarbonate.

-!- FUNCTION: The lactotransferrin peptidase S60 domain 1 fe a serine protease that cuts arginine rich region.
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Best Local S
Matches 10
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Sus scrofa (Pig).
Eukaryota; Metazoa; (
Mammalia; Eutheria; )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRFL CAPHI STANDARD; PRT; 708 AA. 029477; Q29479; 15-DEC-1998, integrated into UniProtKB/Swiss-Prot. 01-NOV-1996, sequence version 1. 07-FEB-2006, entry version 41. Lactotransferrin precursor (EC 3.4.21.-) (Lactofer
                                                                                                                                                                                                                                                                            TISSUE=Mammary gland;
Lee T., Yu S., Kim S.,
Submitted (APR-1996) to
                                                                                                                                                                                                                                                                                                                                                                                             Mammalia; Eutheria; Lauras
Pecora; Bovidae; Caprinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Mammary gland; Wang S.-R., Lin T.-Y., Weng Submitted (DEC-2001) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Capra hircus (Goat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Name=LTF
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prinae; Capra.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata; Craniata; Vertebrata; Euteleostomi; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                        [MRNA].
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76.9%;
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EMBL/GenBank/DDBJ databases.
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EMBL; U53857; AAA97958.1; -;
EMBL; X78902; CAA55517.1; -;
PDB; 1JW1; X-ray; A=20-708.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           contributes to the antimicrobial activity (By similarity). CANALYTIC ACTIVITY: Preferential at -Arg-Ser-Arg-Arg-| and Arg-Ser-Arg-|, and of Z-Phe-Arg-| aminomethylcoumarin. SUBUNIT: Monomer (By similarity).

SUBCELLAURAR LOCATION: Secreted protein.
MISCELLAURBOUS: The second peptidase S60 domain does not have protease function as the catalytic residues are missing. SIMILARITY: Belongs to the transferrin family.

SIMILARITY: Contains 2 peptidase S60 domains.
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                                                                       EMBL; AY79249; AAV92908.1; -; mRNA.

SMR; Q5MJEB; 22-708.

GO; GO:0005576; C:extracellular region; IEA.

GO; GO:0005976; F:ferric iron binding; IEA.

GO; GO:0006879; P:iron ion homeostasis; IEA.

GO; GO:0006879; P:iron ion transport; IEA.

GO; GO:0006879; P:iron ion transport; IEA.

GO; GO:0006879; P:iron ion transport; IEA.

InterPro; IPR001156; Peptidase S60.

PANTHER; PTHR11485; Peptidase S60; 1.

Pfam; PF00405; Transferrin; 2.

PRINTS; PR00422; TRANSFERRIN.

SMART; SM00094; TR FER; 2.

PROSITE; PS00205; TRANSFERRIN—1; 2.

PROSITE; PS00205; TRANSFERRIN—2; 2.

PROSITE; PS00207; TRANSFERRIN—3; 2.

SEQUENCE 708 AA; 77236 MW; BOAEEEFC69BBA2CC
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Caprinae; Ovis.

NCBI_TaxID=9940;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Copyrighted by the UniProt Consortium, see http://www.uniprot.org/termsDistributed under the Creative Commons Attribution-NoDerivs License
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1; Mismatches
                   Score 55;
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QGLBN7, BOVIN PRELIMINARY; PRT; 681 AA.

QGLBN7;

QS-JUL-2004, integrated into UniProtKB/TrEMBL

QS-JUL-2004, sequence version 1.

Q7-FEB-2006, entry version 10.

Lactoferrin (Fragment).
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PROSITE; PS00205; TRANSFERRIN_2; 1.

PROSITE; PS00206; TRANSFERRIN_3; 1.

PROSITE; PS00207; TRANSFERRIN_3; 1.

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SEQUENCE 355 AA; 38861 MW; 92CF
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GO; GO:0005576; C:extracellular region; IEA.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008199; P:iron ion homeostasis; IEA.
GO; GO:0006879; P:iron ion transport; IEA.
InterPro; IPR001156; Peptidase S60.
PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 1.
                             Bos taurus (Bovine).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; X17066; CAA34912.1; -; mRNA.
HSSP; P24627; 1BLF.
SMR; Q8MII0; 8-347.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pierce A., Colavizza D., Benaissa M., Mae
Montreuil J., Spik G.;
"Molecular cloning and sequence analysis
Eur. J. Biochem. 196:177-184(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.
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     NCBI_TaxID=9913;
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69.2%;
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1; Mismatches
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Best Local
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time : 105.956 secs
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NON TER
SEQUENCE
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SMART; SM00094; TR_FER; 2.

PROSITE; PS00205; TRANSFERRIN 1; 2.

PROSITE; PS00205; TRANSFERRIN 2; 2.

PROSITE; PS00206; TRANSFERRIN 3; 2.

CHAIN <1 681 Bovine Lactoferrin.
                                                                                                                                                                                                                                                                               GG; GO:0005576; C:extracellular region; IE
GO; GO:0008199; F:ferric iron binding; IEA
GO; GO:0006879; P:iron ion homeostasis; IEA
GO; GO:0006826; P:iron ion transport; IEA.
InterPo; IPRO1156; Peptidase S60;
PANTHER; PTHR11485; Peptidase S60; 1.
Pfam; PF00405; Transferrin; 2.
                                                                                                                                                                                                                                                                                                                                                                               EMBL; X54801; CAA38572.1; -; mRNA.
HSSP; Q29477; 1JW1.
SMR; Q6LEN7; 1-681.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tweedie J;
Submitted (JAN-1991) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=91088328; PubMed=2263492;
Mead P.E., Tweedie J.W.;
"CDNA and protein seguence of bovine lactoflavin.";
Nucleic Acids Res. 18:7167-7167(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE=Mammary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Mammary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE.
           completed: June 13, 2006, 04:17:46
                                                      649
                                                                                 1 YEKYLGEEYVKAV 13
                                                                                                          Similarity
9; Conserv
                                                      YEEYLGTEYVTAI 661
                                                                                                                                                                     681 AA; 75182 MW; 4927DE88144D99BA CRC64;
                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                     C:extracellular region; IEA. F:ferric iron binding; IEA.
                                                                                                                          75.0%;
69.2%;
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                                                                                                                          Score 51;
Pred. No.
                                                                                                              Mismatches
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15;
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Result
No.
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Maximum DB seq
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Maximum Match 100%
Listing first 45 s
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re greater than or equal to the score of the result being printed,
is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          length: 0
length: 2000000000
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Match
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Gapop 10.0 , Gapext 0.5
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 YEKYLGEEYVKAV 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Copyright
                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                            GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd
                                                                                                                                                                                                                                                                                                                                                                                                            BB
               US-08-175-158A-2
US-09-439-740-2
US-09-439-740-2
US-09-285-310-2
US-09-285-310-2
US-09-285-310-4
US-09-285-310-4
US-09-285-310-4
US-09-285-310-4
US-09-285-310-4
US-09-285-310-4
US-08-456-108-6
US-08-456-108-6
US-08-456-108-4
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4 Appli
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48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
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US-09-265-577-2	US-08-476-798-4	US-08-456-108-2	US-09-158-313-4	US-08-464-167-4	US-08-456-106-2	US-08-453-703-2	US-08-461-333-4	US-08-154-019-4	US-08-250-308-2	US-08-145-681-2	US-08-476-798-2	US-09-158-313-2	US-08-464-167-2	US-08-461-333-2	US-08-154-019-2	US-08-655-640-4	US-08-655-640-2	US-09-932-190-2
Sequence 2,	Sequence 4,	Sequence 2,	Sequence 4,	Sequence 4,	Sequence 2,	Sequence 2,	Sequence 4,	Sequence 4,	Sequence 2,	Sequence 4,	Sequence 2,	Sequence 2						
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ALIGNMENTS

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MELANOMA-ASSOCIATED ANTIGEN

NUMBER OF SEQUENCES: 6

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/7230

FILING DATE: 27-JAN-1987

PRIOR APPLICATION NUMBER: 827,313

FILING DATE: 07-FEB-1986
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5262177-4
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APPLICANT: BROWN, J OSEPH P.;ESTIN, CHARLES D.;PLOWMAN, GREGORY

D.;HELLSTROM, KARL E.;ROSE, TIMOTHY M.;HELLSTROM, INGEGERD;

DURCHIO, ANTHONY F.;HU, SHIU-LOK;PENNATHUR, SRIDHAR

TITLE OF INVENTION: RECOMBINANT VIRUSES ENCODING THE HHUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO:4:
                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application Patent No. 5986067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                   GENERAL INFORMATION:

APPLICANT: FUNK, Walter D.

APPLICANT: MAGGILLIVRAY, Ross T.A.

APPLICANT: MASON, Anne B.

APPLICANT: MOODWORTH, Robert C.

TITLE OF INVENTION: RECOMBINANT TRANSFERRINS, TRANSFERRIN HALF-
TITLE OF INVENTION: MOLECULES AND MUTANTS THEREOF

NUMBER OF SEQUENCES: 7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                               CORRESPONDENCE ADDRESS:
                                                             STATE: M
                                                                                                                         ADDRESSEE:
STREET: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                      CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              664 YEKYLGEEYVKAV 676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 100.0%; Score 68; DB 7; Length 696; l Similarity 100.0%; Pred. No. 0.0012; 13; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 YEKYLGEEYVKAV 13
                                              02109
                                                                                   Massachusetts
                                                                                                                                                                                                                                                                                                                                                                          Application US/08175158A
                                                                                                                         E: LAHIVE & COCKFIELD 60 State Street, suit
                                                               USA
                                                                                                                           suite
                                                                                                                           510
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OPERATING SYSTEM: PC-D SOFTWARE: ASCII text CURRENT APPLICATION DATA:

COMPUTER:

IBM PC compatible

PC-DOS/MS-DOS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: UVI-V
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 600 ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/09439740 Patent No. 6825037
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Best Local Similarity
                                                                                                                                                                                                                                             ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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TOPOLOGY: line
OLECULE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/175,158A
FILING DATE: 28-DEC-1993
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/832,029
FILING DATE: 06-FEB-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                  CLASSIFICATION: PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: MASON, Anne B.
APPLICANT: WOODWORTH, Robert C.
TITLE OF INVENTION: RECOMBINANT TRANSFERRINS, TRANSFERRIN HALF-
TITLE OF INVENTION: MOLECULES AND MUTANTS THEREOF
NUMBER OF SEQUENCES: 7
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Gillio A.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: UVI-005CP2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                             CITY: Boston
STATE: Massachusetts
COUNTRY: USA
                                                                                                                FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                             APPLICATION NUMBER: US/09/439,740 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: DeConti, Giulio A. REGISTRATION NUMBER: 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     666 YEKYLGEEYVKÁV 678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 YEKYLGEEYVKAV 13
                                                                                                                                                                                                                                                                                                                                                                                                                                         60 State Street, suite 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNK, Walter D.
MacGILLIVRAY, Ross T.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                            LAHIVE & COCKFIELD
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                                                                                                                                                    08/175,158
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COUNTRY: USA
COUNTRY: USA
ZIP: 02173
ZOMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/08/470,058
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: TKT93-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-9240
2:
                                                   Query Match
Best Local Similarity
Matches 13; Conserve
                                                                                                                                         ; MOLECULE TYPE: protein US-08-470-058-2
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US-08-470-058-2
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Heartlein, Michael w.
APPLICANT: Lemontt, Jeffrey F.
TITLE OF INVENTION: Chimeric Proteins For Use in Transport
TITLE OF INVENTION: of a Selected Substance Into Cells
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 698 amino acids
TYPE: amino acid
TYPE: amino acid
                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                               STRANDEDNESS:
TOPOLOGY: unl
                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: Two Mili
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C STREET: Two Militia Drive
1042 YEKYLGEEYVKAV 1054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        666 YEKYLGEEYVKÁV 678
                      1 YEKYLGEEYVKAV 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 YEKYLGEEYVKAV 13
                                                                                                                                                                                                                                   1074 amino acids
                                                                  100.0%; Score 68; DB 1; ilarity 100.0%; Pred. No. 0.0019; Conservative 0; Mismatches
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                                                                                                                                                                                 unknown
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                                                                                                        Length 1074;
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US-09-037-188-2
; Sequence 2, Application US/09037188
; Patent No. 6027921
; GENERAL INFORMATION:

RESULT 5

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                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 6
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino
                                                                                                                                                                                                                                                                                                                                                                           Sequence 2, Application US/09285310 Patent No. 6262026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/09/037,188
FILING DATE: 02-WAR-1998
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Ph.D., J.D., Ja
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 0723
                                                                                                                                                                                                                           APPLICANT: Heartlein, Michael w.
APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED
NUMBER OF SEQUENCES: 12
                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
TITLE OF INVENTION:
SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADULE STREET: STREET: Boston
   OPERATING SYSTEM: Windows SOFTWARE: Factor RRENT
                                                                                                              COUNTRY: USA
ZIP: 02110-2804
                                                                                                                                                      STATE:
                                                                                                                                                                       CITY:
                                                                                                                                                                                       STREET:
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TOPOLOGY: unknown
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                                                                                                                                                                                       ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
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Concino, Michael
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                                     Windows95
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CHIMERIC PROTEINS FOR USE
IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
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GENERAL INFORMATION:

APPLICANT: Heartlein, Michael W.

APPLICANT: Lemontt, Jeffrey F.

APPLICANT: Concino, Michael F.

TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE IN TRANSPORT TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS FILE REFERENCE: 10278-025004

CURRENT APPLICATION NUMBER: US/09/753,385

CURRENT FILING DATE: 1020-12-10

PRIOR APPLICATION NUMBER: US 08/470,058

PRIOR FILING DATE: 1995-06-06

PRIOR FILING DATE: 1995-037,188

PRIOR FILING DATE: 1998-03-09

PRIOR APPLICATION NUMBER: US 09/037,188

PRIOR FILING DATE: 1998-03-09

PRIOR APPLICATION NUMBER: US 09/285,310

PRIOR APPLICATION NUMBER: US 09/285,310

PRIOR APPLICATION NUMBER: US 09/285,310
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                                       US-08-470-058-4
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US-09-753-385-2
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Sequence 4, Application US/08470058 Patent No. 5817789
                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1074
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                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Fraser, Ph.D., J.D., REGISTRATION NUMBER: 34,819
REFERRANCE/DOCKET NUMBER: 07.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 1074 amino acids
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: protein
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                                                                                                                                                                                        Local Similarity 100.0%;
nes 13; Conservative (
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                                                                                                                 1042 YEKYLGEEYVKAV 1054
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100.0%; Pred. No.
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GENERAL INFORMATION:
APPLICANT: Heartle
APPLICANT: Lemont

Heartlein, Michael W. Lemontt, Jeffrey F.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 4, Application US/09037188 Patent No. 6027921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                         COMPUTER: IBM COMPUTER: WINDOWS 95
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: FRANCESEQ for WINDOWS Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,188
APPLICATION NUMBER: US/09/037,188
APPLICATION O2-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,058 FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
                                                                                                                                                                           COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TK1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEPHONE: 617-861-6240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Chimeric Proteins For Use in TraTITLE OF INVENTION: of a Selected Substance Into Cel NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C. STREET: Two Militia Drive
                FILING DATE: 02-MAR-
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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                                                                                                                                                                                                                                                              STATE:
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STRANDEDNESS: un
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REGISTRATION NUMBER: 32,
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ZIP: 02173
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Concino, Michael F.
TVENTION: CHIMERIC PROTEINS FOR USE
TVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 68; DB 1; Length 1410; nilarity 100.0%; Pred. No. 0.0026; Conservative 0; Mismatches 0; Indels
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06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unknown
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Query Match
Best Local Similarity
"---hes 13; Conserv?
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                                                                         ; MOLECULE TYPE: protein US-09-285-310-4
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GENERAL INFORMATION:
APPLICANT: Heartle
APPLICANT: Lemontt
APPLICANT: Concino
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SEQUENCE CHARACTERISTICS:
LENGTH: 1410 amin
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                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/037,18
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Ph.D., J.D., Ja.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 0723
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:

NAME: Framer, Ph.D., J.D., Ja
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 0723
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5970
                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                            SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Lemontt, Jeffrey F.
APPLICANT: Concino, Michael F.
TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE
TITLE OF INVENTION: IN TRANSPORT OF A SELECTED SUBSTANCE INTO CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
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CITY: Boston
STATE: MA
                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE:
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                                                                                                                                             ENGTH:
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GY: unknown
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                                                                                                                                           1410 amino acids
                                                                                                                                                                                                              617/542-8906
               100.0%;
ilarity 100.0%;
Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Heartlein, Michael W.
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                                                                                                              unknown
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               Score 68; DB 2;
Pred. No. 0.0026;
); Mismatches 0;
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                                             Length 1410;
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YEKYLGEEYVKAV 1390

YEKYLGEEYVKAV

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APPLICANT: Lemonit, Jeffrey F.

APPLICANT: Concino, Michael F.

TITLE OF INVENTION: CHIMERIC PROTEINS FOR USE IN TRANSPORT TITLE OF INVENTION: OF A SELECTED SUBSTANCE INTO CELLS

FILE REFERENCE: 10278-025004

CURRENT APPLICATION NUMBER: US/09/753,385

CURRENT FILING DATE: 2002-12-10

PRIOR APPLICATION NUMBER: US 08/470,058

PRIOR FILING DATE: 1995-06-06

PRIOR FILING DATE: 1995-06-06

PRIOR FILING DATE: 1998-03-09

PRIOR APPLICATION NUMBER: US 09/037,188

PRIOR PILING DATE: 1998-03-09

PRIOR APPLICATION NUMBER: US 09/285,310

PRIOR FILING DATE: 1999-04-02
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Patent No. 557169
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SEQ ID NO 4
LENGTH: 1410
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                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/145,681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Heartlein, Michael W. APPLICANT: Lemontt, Jeffrey F. APPLICANT: Concino, Michael F.
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APPLICANT: Connee
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ADDRESSEE: Baker & Botts, L.L.P.
STREET: 910 Louisiana St
                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: Production of Recombinant Lactoferrin
TITLE OF INVENTION: and Lactoferrin Polypeptides Using cDI
TITLE OF INVENTION: Various Organsims
                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                            FILING DATE:
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                          CITY: Houston
STATE: Texas
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mes 13; Conservative
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McGregor, Martin L.
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100.0%; Pred. No. 0.0026;
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US-08-453-703-6
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                                                                                                                                                                   COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,703
FILING DATE: Concurrently herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,681
FILING DATE: October 28, 1993
ATTORNEY/AGENT INFORMATION:
NAMB: Albert P. Halluin
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8206-024
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
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Best Local Similarity
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                                                                                                      TELEFAX: 415-854-3694
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:
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MEDIUM TYPE: Floppy disk
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ORGANISM: Sus
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MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
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LENGTH: 703 amino acid
               MOLECULE TYPE: protein HYPOTHETICAL: YES
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                                                     TOPOLOGY:
                                                                  TYPE: amino acid
                                                                                                                                                              TELEPHONE: 415-854-3660
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                                                                                     ENGTH:
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                                                                                     703 amino acids
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                                                   linear
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76.9%;
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Pred. No. 0.15;
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                                                                                                                                                                                                                              TELEFAX: 415-854-3694
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 703 amino acids
TYPE: amino acid
TOPOLOGY: linear
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APPLICANT: Conneel
APPLICANT: Headon,
APPLICANT: O'Malle
APPLICANT: May, Gr
                                                                Matches
                                                                                Query Match
Best Local Similarity
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FILING DATE: Concurrently herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,681
APPLICATION NUMBER: 08/145,681
FILING DATE: October 28, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Albert P. Halluin
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8206-025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGINAL SOURCE:
ORGANISM: Sus scrofa
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MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                ORIGINAL SOURCE:
ORGANISM: Sus
                                                                                                                                                                              MOLECULE TYPE: protein HYPOTHETICAL: YES ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: Production of Recombinant Lactoferrin
TITLE OF INVENTION: and Lactoferrin Polypeptides Using cDNA Sequences
TITLE OF INVENTION: Various Organisms
NUMBER OF SEQUENCES: 14
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Local Similarity 76.9%;
les 10; Conservative
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YEKYLGSEYVTAI 683
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76.9%;
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Pred. No. 0.15;
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Pred. No. 0.15;
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                                                                                              Length 703;
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Search completed: June 13, 2006, 04:25:48 Job time : 22.9412 secs
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APPLICANT: Conneely, Orla M.
APPLICANT: Headon, Denis R.
APPLICANT: O'Malley, Bert W.
APPLICANT: May, Gregory S.
TITLE OF INVENTION: Production
TITLE OF INVENTION: Various Or.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 6, Application US/08456108 Patent No. 6100054
                                                                                                                                           Matches
                                                                                                                                                                           Query Match
                                                                                                                                                           Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,681
PILING DATE: OCTOBER 28, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Albert P. Halluin
                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 415-854-3694
INFORMATION FOR SEQ ID NO: 6:
                                                                                                                                                                                                                              ANTI-SENSE: NO ORIGINAL SOURCE: ORGANISM: Sus
                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 821
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/456,108
FILING DATE: Concurrently herewith
                                                                                                                                                                                                                                                                               MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
TOPOLOGY: linear
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10; Conserv
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Minimum DB seq
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US-10-31-494-3

US-10-429-497-4

US-10-429-515-4

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US-10-429-635-4

US-10-429-659-4

US-10-429-659-4

US-10-429-650-4

US-10-429-660-4

US-10-429-660-4

US-10-429-660-4

US-10-429-660-4

US-10-429-662-4

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US-10-429-655-4

US-10-935-642-6

US-10-378-094-2
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                                        14, Appli 38, Appli 5, Appli 5, Appli 5, Appli 5, Appli 6, Appli 6
             RESULT 2
US-10-378-094-16
US-10-378-094-16
Sequence 16, Application US/10378094
Publication No. US20030221201A1
GENERAL INFORMATION:
APPLICANT: LAI, Char-Huei
APPLICANT: LAI, Char-Huei
APPLICANT: SADECHI, Homayoun
APPLICANT: SADECHI, Homayoun
APPLICANT: SADECHI, Homayoun
APPLICANT: WUNDER: MODIFIED TRANSFERRIN FUSION PROTEINS
FILE REFERENCE: 54710-5001-01-US
CURRENT APPLICATION NUMBER: US/10/378,094
CURRENT FILING DATE: 2003-03-04
PRIOR APPLICATION NUMBER: US 60/331,494
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
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Best Local
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APPLICATION NUMBER: US 60/315,745
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
51	51	51	51	51	51	56	ъ 6	56	89	68	68	68	68	83	83	83	68
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US-10-513-523-2	US-10-620-256-4	US-10-169-297-8	US-10-205-331-55	US-10-316-253-275	US-10-316-253-273	US-10-620-256-6	US-10-769-514-47	US-10-769-514-14	US-10-473-127-804	US-10-473-127-805	US-09-753-385-4	US-09-753-385-2	US-11-038-901-2	US-11-177-506-46	US-10-513-523-3	US-10-887-711-2	US-10-383-201-14
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence .	Sequence	Sequence	Sequence	Sequence .	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
2, Appli	4, Appli	8, Appli	55, Appl	275, App	273, App	6, Appli	47, Appl	14, Appl	-	805, App	4, Appli	2, Appli	2, Appli	46, Appi	3, Appli	2, Appli	14, Appl

ALIGNMENTS

## Sequence 4, Application US/10612162 Publication No. US20040014145A1 GENERAL INFORMATION: APPLICANT: Dade Behring Marburg GmbH TITLE OF INVENTION: Carbbhydrate deficient transferrin (CDT)-specific TITLE OF INVENTION: antibodies, their preparation and use FILE REFERENCE: 2002/B001 CURRENT APPLICATION NUMBER: US/10/612,162 CURRENT FILING DATE: 2003-07-03 PRIOR APPLICATION NUMBER: 10230550.1 PRIOR FILING DATE: 2002-07-05 PRIOR FILING DATE: 2003-05-19 RIOR FILING DATE: 2003-05-19 NUMBER OF SEQ ID NOS: 4 SOFTWARE: Patentin Ver. 2.1 1 YEKYLGEEYVKAV 13 Similarity YEKYLGEEYVKAV 13 Conservative sapiens 100.0%; Score 68; DB 4; 100.0%; Pred. No. 0.0002; tive 0; Mismatches 0; Length 13; Indels <u>.</u>. Gaps

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: C2 su
US-10-378-094-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: SADEGHI, Homayoun
APPLICANT: PRIOR, Christopher P.
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN-ANTIBODY FUSION PROTEINS
FILE REFERENCE: 54710-5004-US
CURRENT APPLICATION NUMBER: US/10/384,060
CURRENT FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 10/231,494
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2002-08-30
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2001-08-30
PRIOR FILING DATE: 2002-08-30
NUMBER OF SEO ID NOS: 80
NUMBER OF SEO ID NOS: 80
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Sequence 27, Application US/10231494
Publication No. US20040023334A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
TITLE OF INVENTION: Modified Transferrin Fusion Proteins
FILE REFERENCE: 54710-5001-US
CURRENT APPLICATION NUMBER: US/10/231,494
CURRENT FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR APPLICATION NUMBER: US 60/334,059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.2
SEQ ID NO 38
LENGTH: 49
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 16
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
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Pred. No. 0.00084;
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; OTHER INFORMATION: Description of Artificial Sequence: ; OTHER INFORMATION: peptide insertion region US-10-231-494-27
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PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/365,984
PRIOR FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/372,022
PRIOR FILING DATE: 2002-04-12
PRIOR APPLICATION NUMBER: 60/389,143
PRIOR APPLICATION NUMBER: 60/389,143
PRIOR FILING DATE: 2002-06-14
PRIOR FILING DATE: 2002-06-14
                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/410,755
PRIOR FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: 60/412,957
PRIOR FILING DATE: 2002-09-23
PRIOR APPLICATION NUMBER: 10/051,874
PRIOR FILING DATE: 2002-01-16
PRIOR APPLICATION NUMBER: 60/366,928
PRIOR ELITER TATE 2002-03-66,928
                                                                                                                                                                                                                        SOFTWARE: CuraSeqList version
SEQ ID NO 12
LENGTH: 137
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Publication No. US20040029226A1
GENERAL INFORMATION:
APPLICANT: Alsobrook II, John et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD!
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NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver.
SEQ ID NO 27
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                                                                                 Matches
                                                                                                                        Query Match
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PRIOR APPLICATION NUMBER: 10/055,877
PRIOR FILING DATE: 2002-01-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 21402-568A CURRENT APPLICATION NUMBER: US/10/383,201 CURRENT FILING DATE: 2003-03-06
                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
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PRIOR FILING DATE: 2002-06-26
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TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                           TYPE: PRT
                                                                             Local Similarity nes 13; Conserv
105 YEKYLGEEYVKAV 117
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                                      YEKYLGEEYVKAV 13
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                                                                               100.0%; Score 68; DB 4; ilarity 100.0%; Pred. No. 0.0025; Conservative 0; Mismatches
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Pred. No.
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US-09-891-126-5 Sequence 5, Application US/09891126 ; Patent No. US20020072596A1 ; GENERAL INFORMATION:

RESULT 6

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-891-126-5
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US-10-378-094-3
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US-10-266-745-5
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Best Local Similarity 100.0%;
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               APPLICANT: PRIOR, Christopher P.
APPLICANT: LAI, Char-Huei
APPLICANT: SADEGHI, Homayoun
APPLICANT: TURNER, Andrew
TITLE OF INVENTION: MODIFIED TRANSFERRIN FUSION PROTEINS
FILE REFERENCE: 54710-5901-01-US
CURRENT APPLICATION NUMBER: US/10/378,094
CURRENT FILING DATE: 2003-03-04
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CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/891,126
PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: PCT/US00/34769
PRIOR FILING DATE: 2000-12-21
PRIOR FILING DATE: 2000-12-21
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CURRENT APPLICATION NUMBER: US/09/891,126
CURRENT FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: PCT/US00/34769
PRIOR TILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/171,595
PRIOR FILING DATE: 1999-12-23
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SOFTWARE: PatentIn Ver. 2.0
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TITLE OF INVENTION: Transferrin Polynucleotides, Polypeptides, and Antibodies
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TITLE OF INVENTION: Transferrin Polynucleotides, Polypeptides, and Antibodies
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TYPE: PRT
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APPLICATION NUMBER: US 10/231,494
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NAME/KEY: MISC FEATURE
OTHER INFORMATION: Mature Transferrin Protein US-10-378-094-3
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US-10-231-494-3
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; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: Mature Transferrin Protein
US-10-384-060-3
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Sequence 3, Application US/10231494
Publication No. US20040023334A1
GENERAL INFORMATION:
APPLICANT: Prior, Christopher P.
TITLE OF INVENTION: Modified Transferrin Fusion Proteins
FILE REFERENCE: 54710-5001-US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 80
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
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Best Local Similarity
Matches 13; Conserv
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PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 66
SOFTWARE: Patentin version 3.2
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PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 60/334,059
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-08-30
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                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Homo sapiens
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ORGANISM: Homo sapiens
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es 13; Conserv
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Pred. No. 0.014;
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Pred. No. 0.014;
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APPLICANT: Sandhu, Jasbir

TITLE OF INVENTION: Methods For The Treatment of Tumors

FILE REFERENCE: 2537.000006

CURRENT APPLICATION NUMBER: US/10/429,497

CURRENT FILING DATE: 2003-05-02

NUMBER OF SEQ ID NOS: 6

SOFTWARE: PatentIn version 3.1

SEQ ID NO 4

LENGTH: 679

TYPE: PRT

ORGANISM: Homo sapiens

US-10-429-497-4
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PRIOR FILING DATE: 2001-08-30
PRIOR FILING DATE: 2001-08-30
PRIOR APPLICATION NUMBER: US 60/315,745
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO3
SEQ ID NO3
LENGTH: 679
TYPE: PRT
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Publication No. US20040219097A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Composition Useful For The Diagnosis, Imaging and Treatment Of Tu
FILE REFERENCE: 2537.000001
CURRENT APPLICATION UMBER: US/10/429,482
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-429-482-4
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US-10-429-497-4
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Best Loc
Matches
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Query Match 100.0%; Score 68; DB 5;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 13; Conservative 0; Mismatches C
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Best Local Similarity
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Pred. No. 0.014;
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Sequence 4, Application US/10429635
Publication No. US20040219101A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Composition Useful For Treatment Of Tumors
FILE REFERENCE: 2537.00007
CURRENT APPLICATION NUMBER: US/10/429,635
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/429,598
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
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publication No. US20040219100A1
GENERAL INFORMATION:
APPLICANT: Sandhu, Jasbir
TITLE OF INVENTION: Composition Useful For The
FILE REFERENCE: 2537.000003
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Best Local :
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TITLE OF INVENTION: Methods For The Treatment Of Tumors
FILE REFERENCE: 2537.000005
CURRENT APPLICATION NUMBER: US/10/429,515
CURRENT FILING DATE: 2003-05-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
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TYPE: PRT
ORGANISM: Homo sapiens
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TYPE: PRT
ORGANISM: Homo sapiens
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Pred. No. 0.014;
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; LENGTH: 679;
; TYPE: PRICE
; ORGANISH: Homo mapiens
US-10-429-613-1

Query Match
Query Match
Pred: No. 0, 004;
Retches 13; Conservative 0, Mismatches 0, Indels 0; Gaps 0;
QV 1 YEKYLGERYWAW 13
Db (44 YEKYLGERYWAW 659)
Search completed: June 13, 2006, 04:56:23
Job time: 75.75 secs
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Maximum Match 100%
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US-11-258-767-16

US-11-258-767-15

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Db 37 YEKYLGEEYVKAV 49	Query Match Best Local Similarity 100. Matches 13; Conservative 1 YEKYLGEBYVKAV 13	ORMATION: Descri ORMATION: peptic -27	TYPE: PRT ORGANISM: Artificial Sequence FEATURE:	SOFTWARE: PatentIn Ver. 2 SEQ ID NO 27 LENGTH: 49	FILING DATE: 2003-07 R OF SEQ ID NOS: 75	FILING DATE: 2003-03 APPLICATION NUMBER:		PRIOR FILING DATE: 2003-08-26	APPLICATION N	CURRENT APPLICATION NUMBER: US	APPLICANT: Sadeghi, Homayoun TITLE OF INVENTION: Transferr	44	JS-10-515-429-27 Sequence 27, Application US, Publication No. US200601053	SULT 1		6 52.	37 54.4 61	2 37 54.4 37	0 37 54.4 1 37 54.4	9 37 54.4 4	7 45 66.2 70 8 40 58.8 41	6 45 66.2 70	4 45 66.2 67	3 47 69.1 69	1 48 70.6 71	8 70.6 71 8 70.6 71	8 48 70.6 7	6 48 70.6 71 7 48 70.6 71	
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RESULT 2
US-10-515-429-3
US-10-515-429-3
; Sequence 3, Application US/10515429
; Publication No. US20060105387A1
; GENERAL INFORMATION:
; APPLICANT: Prior, Christopher P.
; APPLICANT: Turner, Andrew J.
. APPLICANT: Sadeghi, Homayoun

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Sequence 2, Application US/10515429

Publication No. US20060105387A1

GENERAL INFORMATION:

APPLICANT: Prior, Christopher P.

APPLICANT: Turner, Andrew J.

APPLICANT: Sadeghi, Homayoun

TITLE OF INVENTION: Transferrin Fusion Protein Libraries

FILE REFERENCE: 054710-5007-W0

CURRENT APPLICATION NUMBER: US/10/515,429

CURRENT FILING DATE: 2004-411-23

PRIOR APPLICATION NUMBER: PCT/US03/26779

PRIOR APPLICATION NUMBER: US 60/406,977

PRIOR FILING DATE: 2003-08-30

PRIOR FILING DATE: 2003-08-30

PRIOR FILING DATE: 2003-03-10

PRIOR FILING DATE: 2003-07-09

PRIOR FILING DATE: 2003-07-09
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FILE REFERENCE: 054710-5007-WO
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR APPLICATION NUMBER: 05 60/406,977
PRIOR FILING DATE: 2003-08-36
PRIOR FILING DATE: 2002-08-30
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR PILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
NUMBER OF SEQ ID NOS: 75
RESULT 4
US-10-515-429-37
; Sequence 37, Application US/10515429
; Publication No. US20060105387A1
; GENERAL INFORMATION:
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; OTHER INFORMATION: Mature transferrin protein
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LENGTH: 679
TYPE: PRT
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SEQ ID NO 2
LENGTH: 698
TYPE: PRT
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Best Local Similarity
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 686
; TYPE: PRT
; ORGANISM: PIG
US-11-258-767-36
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                                                                                                                                 US-11-258-767-37
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PRIOR FILING DATE: 2003-08-26
PRIOR PPLICATION NUMBER: US 60/406,977
PRIOR PILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR PPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 36, Application US/11258767

Publication No. US20060094082A1

GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Varadhachary, Atul
APPLICANT: Elynn, Peter
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2004-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
Sequence 37, Application US/11258767
Publication No. US20060094082A1
GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 10; Conserv
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SEQ ID NO 37
LENGTH: 676
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APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
FILE REFERENCE: 054710-5007-W0
CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11.23
                                                                                                                                                                                                                   672 YEKYLGSEYVTAI 684
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76.9%;
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76.9%;
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Pred. No. 0.033;
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Pred. No. 0.015;
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Engelmayer, Jose

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US-11-258-767-28
              Sequence 32, Application US/11258767

Publication No. US20060094082A1

GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Petrak, Karel
APPLICANT: Petrak, Karel
APPLICANT: Petrak, Karel
APPLICANT: Petrak, Karel
CURRENT Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
SOFTWARE: Patentin version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 28
LENGTH: 708
TYPE: PRT
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SEQ ID NO 37
LENGTH: 703
TYPE: PRT
ORGANISM: PIG
S-11-258-767-37
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APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR APPLICATION NUMBER: US 60/622,176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/622,176 PRIOR FILING DATE: 2004-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: HO-P02915US1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
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76.9%;
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Pred. No. 0.051;
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Pred. No. 0.034;
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; ORGANISM: GOAT
US-11-258-767-32
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LENGTH: 681
TYPE: PRT
ORGANISM: COW
IS-11-258-767-13
                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
                                                                                                                                                                                                                                                                                                                                                                    Sequence 13, Application US/11258767 Publication No. US20060094082A1
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Publication No.
                                                                                    SEQ ID NO 13
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                                                                                                                 APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US(11/258,767)
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR PILING DATE: 2004-10-26
PRIOR FILING DATE: 2004-10-26
PRIOR FILING DATE: 2004-10-26
PRIOR FILING DATE: 2004-10-26
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Matches 9; Conserv
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Best Local Similarity
                                                                                                         SOFTWARE: PatentIn version 3.3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Prior, Christopher P. APPLICANT: Turner, Andrew J.
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69.2%;
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CURRENT APPLICATION NUMBER: US/10/515,429
CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: PCT/US03/26779
PRIOR FILING DATE: 2003-08-26
PRIOR APPLICATION NUMBER: US 60/406,977
PRIOR FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR APPLICATION NUMBER: US 10/384,060
PRIOR FILING DATE: 2003-03-10
PRIOR APPLICATION NUMBER: US 60/485,404
PRIOR FILING DATE: 2003-07-09
NUMBER OF SEQ ID NOS: 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Turner, Andrew J.
APPLICANT: Sadeghi, Homayoun
TITLE OF INVENTION: Transferrin Fusion Protein Libraries
                     Score 51; I
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Pred. No. 0.051;
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    Mismatches
                                         DB 6;
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                                       Length 676;
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NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn version 3.3
SEQ ID NO 25
LENGTH: 698
TYPE: PRT
ORGANISM: RAT
US-11-258-767-25
В
                                                                                                                                          SOFTWARE: PatentIn version 3.3; SEQ ID NO 16; LENGTH: 708; TYPE: PRT ORGANISM: COW US-11-258-767-16
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US-11-258-767-16
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US-11-258-767-25
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Publication No. US20060094082A1
GENERAL INFORMATION:
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Publication No. US20060094082A1
GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
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                                                                         Matches
                                                                                        Query Match
Best Local Similarity
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APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
APPLICANT: Petrak, Karel
APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
PRIOR FILING DATE: 2004-10-26
PRIOR PRIOR PRIOR DATE: 2004-10-26
PRIOR PRIOR PRIOR DATE: 2004-10-26
PRIOR PRIOR PRIOR DATE: 2004-10-26
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APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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                                     1 YEKYLGEEYVKAV 13
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                                                                       Score 51; DB 7;
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2; Mismatches
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Publication No. US20060094082A1
GENERAL INFORMATION:
APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
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Publication No. US20060094082A1
GENERAL INFORMATION:
                                                        Sequence 29, Application US/11258767
Publication No. US20060094082A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn version 3.3 SEQ ID NO 22 LENGTH: 708
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Best Local
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APPLICANT: Petrak, Karel
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
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APPLICANT: Engelmayer, Jose
APPLICANT: Engelmayer, Jose
TITLE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P0291SUS1
CURRENT APPLICATION NUMBER: US/11/258,767
CURRENT FILING DATE: 2005-10-26
PRIOR APPLICATION NUMBER: US 60/622,176
PRIOR FILING DATE: 2004-10-26
NUMBER OF SEQ ID NOS: 67
NUMBER OF SEQ ID NOS: 67
APPLICANT: Varadhachary, Atul
APPLICANT: Glynn, Peter
APPLICANT: Petrak, Karel
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APPLICANT: Glynn, Peter
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TYPE: PRT
ORGANISM: WATER BUFFALO
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; APPLICANT: Engelmayer, Jose
TITILE OF INVENTION: COMPOSITIONS OF LACTOFERRIN RELATED PEPTIDES AND USES THEREOF
FILE REFERENCE: HO-P02915US1
; CURRENT APPLICATION NUMBER: US/11/258,767
; CURRENT APPLICATION NUMBER: US 60/622,176
; PRIOR FILING DATE: 2004-10-26
; PRIOR APPLICATION NUMBER: US 60/622,176
; PRIOR FILING DATE: 2004-10-26
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 29
; SOFTWARE: PRT
; ORGANISM: COW
US-11-258-767-29

Query Match
Best Local Similarity 69.2%; Ered. No. 0.24;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QUERY Match
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

ON 1 YEKYLGEEYVKAV 13
Db 676 YEEYLGEEYVKAV 13
Db 676 YEEYLGEEYVKAV 13
Search completed: June 13, 2006, 04:56:52

Job time: 4.39706 secs
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ALIGNMENTS

## ADG46078; ADG46078 standard; peptide; 13 19-MAY-2003; 2003EP-00011334. antibody; carbohydrate-deficient transferrin; CDT; non-glycosylated transferrin; alcoholism; alcoholic; diagnosis; human. Human CDT peptide fragment 25-MAR-2004 07-JAN-2004. EP1378521-A1. Homo sapiens. (first entry) ₽

This invention describes a novel antibody that, in aqueous solution, binds selectively to carbohydrate-deficient transferrin (CDT) without having to bind CDT to a solid phase. The invention also describes an antibody that binds selectively to CDT at regions containing the sequences VVARSMGCKEDLIVELL, TTEDSIAKIMNGEADAMSLDGGF, SKLSMSGCKNLSEPN and YEKYLGEBYVKAV (ADG46075-ADG46078) and an immunoassay for detecting CDT using the antibodies of the invention. The antibodies of the invention are monoclonal, specifically from hybridomas DSM ACC2540 or 2541. The antibodies are obtained by immunisation with non-glycosylated transferrin, or a fragment, then generation of hybridomas by standard fusion of spleen and myeloma cells. Hybridomas are then selected for

New antibody specific for carbohydrate-deficient transferrin, useful for diagnosis of alcoholism, can bind its target in solution, eliminating need for immobilization.

WPI; 2004-073743/08.

Althaus

05-JUL-2002; 2002DE-01030550.

(DADE-) DADE BEHRING MARBURG GMBH

Claim 4; SEQ ID NO 4; 21pp; German.

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         The invention relates to a method of managing, treating or ameliorating a respiratory infection or its symptom in a human subject by administering an interleukin-9 (II-9) antagonist. The method further comprises administering to the subject an anti-respiratory syncytial virus (anti-RSV) antigen antibody. The anti-RSV antigen antibody is palivizumab. The method further comprises administering a leukotriene modifier, which is montelukast, zafirlukast, pranlukast or zileuton. Also disclosed are: a method of preventing the development, onset or progression of asthma or one or more asthma-like symptoms in a child, a method of preventing, managing, treating or ameliorating wheezing in a human subject, and a method of preventing, managing, treating or ameliorating wheezing in a human subject, and a method of preventing, managing, treating or ameliorating wheezing in a human subject, and a method of preventing, managing, managing,
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10-JUN-2003; 2003US-0477801P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         treating or ameliorating in a human subject a respiratory or its symptoms caused by bacteria, fungi or respiratory virus by administering an IL-9 antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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Pred. No. 0.0
0; Mismatches
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RESULT 3
ADT88295
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                                                                                                                                                                                                                                                                                                                                                                                      respiratory; antiinflammatory; immunosuppressive; antiasthmatic; antiallergic; antiarthritic; neuroprotective; antirheumatic; immunotoxin; angiogenesis inhibitor; TWF alpha antagonist; IL-9 antagonist; IL-9; IL-9; antibody; 4D4; 4D4 H2-1 D11; 4D4com-XF9; 4D4com-2F9; 7F3; 71A10; 2D3; 7F3com-2H2; 7F3com-3H5; 7F3com-3D4; IL-9 associated disorder; respiratory infection; respiratory syncytial virus; parainfluenza virus; human metapneumovirus; inflammatory disorder; asthma; allergy; arthritis; autoimmune disorder; rheumatoid arthritis; multiple sclerosis; autoimmune disorder; rheumatoid arthritis; multiple sclerosis;
                                  WPI; 2004-775520/76
                                                                                                                                                   11-APR-2003; 2003US-0462259P.
10-JUN-2003; 2003US-0477797P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human IL-19 antibody variable heavy domain CDR3 seqid 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-JAN-2005
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                                                                                                                                                                                                              12-APR-2004; 2004WO-US011172
                                                                                                                                                                                                                                                                                            WO2004091510-A2
                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                         variable heavy
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5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                         domain;
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62.5%;
                                                                                                                                                                                                                                                                                                                                                                         complementarity
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Pred. No.
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New IL-9 antibody comprising a variable heavy or light domain

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AED66887

ID AED0

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AC AED0

DY 26---

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CONTROL Humm

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Gene

KW Gene

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                             dermatological; carditis; cardiant; sjoegrens syndrome; polymyositis; muscular-gen.; dermatomyositis; scleroderma; hyperproliferation; cytostatic; infection; antimicrobial; respiratory tract infection; respiratory-gen.; interleukin-9; cytokine; lymphokine; antibody; heavy chain variable region; 4D4 H2-1 D11; 7F3; 71A10; 7F3 22D3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiinflammatory; asthma; antiasthmatic; allergy; antiallergic; autoimmune disease; immunosuppressive; diabetes; antidiabetic; hashimotos disease; antithyroid; adrenal disease; endocrine-gen; anem antianemic; multiple sclerosis; neuroprotective; rheumatoid arthritis; antiarthritic; antitheumatic; systemic lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gene therapy; chemotherapy; animal disease model; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human IL-9 antibody,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-JAN-2006
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5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4D4 H2-1 D11 VH domain CDR3 peptide, SEQ ID:
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Pred. No. 6.1e+02;
1; Mismatches 2;
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RESULT 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC polypepide, IL-9R or one or more subunits, inflammatory disorders such as asthma or an allergy, autroimmune disorders such as diabetes, autoimmune adrenal insufficiency, pure red cell anemia, multiple sclerosis, rheumatoid carditis, systemic lupus crythematosus, rheumatoid arthritis, chronic inflammation. Sjogren's syndrome polymyositis, dermatomyositis or scleroderma, proliferative clisease or an infection (preferably, a respiratory infection). The invention is also useful in gene therapy, chemotherapy and to generate animal disease models. The present sequence is a heavy chain variable (VH) domain complementarity determining region, CDR3 peptide present in human interleukin-9 (IL-9) antibodies 4D4 H2-1 D11, 7F3, 71A10, 7F3 22D3, 7F3com-3H2, 7F3com-3H5 and 7F3com-3D4. Note: The present sequence is the SEQ ID NO: 3 which is given in the sequence listing. This sequence C differs from the SEQ ID NO: 3 shown on table 1 in page 2 (antibody 4D4) in the disclosure of the specification (see AED66959).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                          Gene therapy; chemotherapy; animal disease model; inflammation; antinflammatory; aschma; antiaschmatic; allergy; antiallergic; autoimmune disease; immunosuppressive; diabetes; antidiabetes; antidiabeta; ystemic lupus exythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention provides liquid formulation of antibodies or antibody fragments that immunospecifically binds to an interleukin-9 (II-9) polypeptide. The formulation exhibit stability, low to undetectable levels of aggregation and very little to no loss of the biological activities of antibodies and its fragments, even during the long period of storage. The antibody formulation of the invention is useful for preventing, managing, treating or ameliorating a disease or disorder associated with aberrant expression and/or activity of an II-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antibody formulation comprises antibody or antibody fragment that immunospecifically binds to an IL-9 polypeptide, useful for preventing, managing, treating, or ameliorating, e.g. asthma, allergy, diabetes, or multiple sclerosis.
dermatological; carditis; cardiant; sjoegrens syndrome; polymyositis; muscular-gen.; dermatomyositis; scleroderma; hyperproliferation; cytostatic; infection; antimicrobial; respiratory tract infection;
                                                                                                                                                                                                                                                                                                                                                            AED66959 standard; peptide; 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 13
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N-PSDB; AED66930.
                                                                                                                                                                                                                          Human IL-9 antibody, 4D4 VH domain CDR3 peptide,
                                                                                                                                                                                                                                                                      26-JAN-2006 (first entry)
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62.5%;
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Pred. No. 6.1e+02;
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RESULT 6
AAW70384
ID AAW7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention provides liquid formulation of antibodies or CC antibody fragments that immunospecifically binds to an interleukin-9 (IL-CC 9) polypeptide. The formulation exhibit stability, low to undetectable CC levels of aggregation and very little to no loss of the biological CC activities of antibodies and its fragments, even during the long period CC of storage. The antibody formulation of the invention is useful for CC preventing, managing, treating or ameliorating a disease or disorder CC protypeptide, IL-9R or one or more subunits, inflammatory disorders such as asthma or an allergy, autoimmune disorders such as diabetes, CC polypeptide, IL-9R or one or more subunits, inflammatory disorders such as asthma or an allergy, autoimmune adrenal insufficiency, pure red cell anemia, multiple sclerosis, rheumatoid carditis, systemic lupus CC erythematosus, rheumatoid arthritis, chronic inflammation, Sjogren's CC esyndrome polymyositis, dermatomyositis, or scleroderma, proliferative CC syndrome polymyositis, dermatomyositis or scleroderma, proliferative CC invention is also useful in gene therapy, chemotherapy and to generate CC unimal disease models. The present sequence is a heavy chain variable CC unimal disease models. The present sequence is a heavy chain variable CC the SEQ ID NO: 3 shown on table 1 in page 2 in disclosure of the sequence listing of the specification (4D4 H2-1 D11, 7F3, 71A10, 7F3 CC 2D3, 7F3com-2H2, 7F3com-3H5 and 7F3com-3D4) (see AED66887).
                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 5
  Human; regeneration-associated serpin-1 protein; RASP-1; liver disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antibody formulation comprises antibody or antibody fragment that immunospecifically binds to an IL-9 polypeptide, useful for preventing, managing, treating, or ameliorating, e.g. asthma, allergy, diabetes, or multiple sclerosis.
                                         human regeneration-associated serpin-1 peptide.
                                                                                                                           AAW70384;
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 13 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 3; 125pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2005-796072/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US2005260204-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 respiratory-gen.; interleukin-9; cytokine; lymphokine; antibody; heavy chain variable region; 4D4 H2-1 D11; 7F3; 71A10; 7F3 22D3; 7F3com-2H2; 7F3com-3H5; 7F3com-3D4.
                                                                                                                                                            AAW70384 standard; protein; 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-APR-2004; 2004US-0561845P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-APR-2005; 2005US-00105268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MEDI-) MEDIMMUNE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-NOV-2005
                                                                                                                                                                                                                                                                                                                                         Similarity 5; Conserv
                                                                                                                                                                                                                                                                 YYGSDYVK 10
                                                                                                                                                                                                                                                                                                    YLGEEYVK 11
                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                              44.1%;
                                                                                                                                                                                                                                                                                                                                           <u>;</u>
                                                                                                                                                                                                                                                                                                                                         Score 30; DB 9;
Pred. No. 6.1e+02;
1; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                Length 13;
                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                             0
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08-DEC-2001; 2001US-0340460P 09-DEC-2002; 2002WO-GB005571. WO2003054549-A2

gs sp

protein quantitation; protease; high-resoluti

mass spectrometry; peptide index; protein identification; Bovine Serum Albumin indexed peptide database peptide #229.

gh-resolution mass

spectrometry;

11-AUG-2005

(first entry)

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RESULT 7
AEA79013
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                                                                                                                                                                                                                                                                                                                                                                       5
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                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This is the amino acid sequence of the human regeneration-associated serpin-1 peptide (RASP-1), used in the method of the invention to develop products for the diagnosis and treatment of liver conditions. The RASP-1 polypeptides are involved in regeneration of the liver and are useful in the diagnosis, prognosis and treatment of liver-associated disorders, such as viral infection, autoimmunity, hepatitis or cirrhosis. They can also be used in methods for maintaining cultured cells or tissues, such as hepatocytes cells or tissues, prior to transplantation. In addition, RASP-1, can be used to promote hepatocyte growth in vitro, in order to, e.g. facilitate production of growth factors, such as hepatocyte growth factor (HGF), that are produced by them. The regulatory region of RASP-1 allows tissue-specific expression (i.e. liver) of an operatively linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated human regeneration-associated serpin-1 - used to develop products for the diagnosis and treatment of liver conditions, e.g. viral infection, autoimmunity, hepatitis or cirrhosis.
                                                                                                                                                                                                                                                                         AEA79013 standard; peptide; 13 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 13 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 27; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1998-446810/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Purchio AF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-FEB-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hepatocyte growth factor; HGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  viral infection; hepatitis; cirrhosis; transplantation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HEPA-) HEPATIX INC
                                                                                                                                                                                                                                                                                                                                                                                                 l Similarity
5; Conserva
                                                                                                                                                                                                                                                                                                                                                4
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                                                                                                                                                                                                                                                                                                                                              YENQIWEEY 12
                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                41.2%;
55.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                  Score 28;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                  1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                             Length 13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fragmentation of a polypeptide or protein; determining a first physico-
c chemical property other than mass or mass to charge ratio of the
molecules comprising peptides; and optionally determining a second,
third, fourth and/or fifth physico-chemical property of the molecules
cc comprising peptides; and a mass spectrometer comprising a mass analyser
cc for accurately determining the mass to charge ratio of the first
cc molecules, and means for identifying the first molecules of the basis of
at least the first physico-chemical property and the accurately
cd determined mass to charge ratio of the first molecules and optionally on
the basis of the second, third, fourth and/or fifth physico-chemical
cc property. The method and spectrometer are useful in protein
dentification, protein quantitation, proteases, high-resolution mass
spectrometry, proteomics, genomics and bioinformatics. This sequence
represents a peptide from an indexed peptide database created by the
created and spectrometry method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                      Virucide; cytostatic; gene therapy; vaccine; epitope; cytotoxic T MHC class I; CTL; HTL; A2-restricted cytotoxic lymphocyte; HLA; viral disease; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          comprises mass analysing the first molecules in a first mixture and accurately determining the mass to charge ratio of the first molecules in the first mixture. The invention further relates to: generating an index for use in identifying molecules of biological origin by mass spectrometry by accurately determining the masses or mass to charge ratios of molecules comprising peptides resulting from the digestion or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A method of mass spectrometry, useful in protein identification and quantitation, by mass analyzing the first molecules in the first mi and accurately determining the mass to charge ratio of the first molecules in the first mixture.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a novel method of mass spectrometry. The method comprises mass analysing the first molecules in a first mixture and
19-OCT-2000; 2000US-0242350P.
20-APR-2001; 2001US-0285624P.
                                                                                                                                                                                                                                                                                   HLA binding epitope #4269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Geromanos S,
                                                     18-OCT-2001;
                                                                                                                                                                                                                                                                                                                         10-MAR-2005
                                                                                                                                                                                                                                                                                                                                                                                                   ADW33519 standard; peptide; 13 AA.
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                                                                                                                                 WO2003040165-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IGEEYI 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCEEAA 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Å
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                       2001WO-US051650
                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Opiteck G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 28; DB 7;
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Silva J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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RRSULT 9
ADW34752
ID 4752
ID ADW35
AC ADW35
AC ADW35
AC ADW35
AC ADW36
AC VITU
AC ADW36
AC AD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The epitope is admixed or joined to a CTL or HTL epitope. The epitope is bound to an HLA molecule on the antigen-presenting cell, where when an A2 restricted cytotoxic lymphocyte (CTL) is present, a receptor of the CTL binds to a complex of the HLA molecule and the epitope. Specifically claimed are peptides having allele-specific binding motifs for HLA. The compositions and methods are useful for preventing, treating or diagnosing viral diseases and cancer. The peptide epitopes are useful as diagnostic agents for evaluating immune responses, for making antibodies and for evaluating efficacy of a vaccine. Sequences given in ADW29251-ADW37745 represent epitopes of the invention as given in Tables 2-31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Virucide; cytostatic; gene therapy; vaccine; epitope; cytotoxic T cell; MHC class I; CTL; HTL; A2-restricted cytotoxic lymphocyte; HLA; viral disease; cancer.
                                  WPI; 2003-441519/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-MAR-2005
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      having an isolated, prepared epitope selected from any of the sequences from 30 lists given in the specification. Also disclosed is a method for inducing a cytotoxic T cell response against a pre-selected antigen in a patient expressing a specific MHC class I allele by contacting cytotoxic T cells from the patient with the composition cited above. The
                                                                                                                                                                                                           19-OCT-2000; 2000US-0242350P.
20-APR-2001; 2001US-0285624P.
                                                                                                                                                                                                                                                                                                                                                                 15-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                         WO2003040165-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HLA binding epitope #5502.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADW34752 standard; peptide; 13 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; Page 52-379; 382pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   binding motifs for 
viral diseases and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New composition comprising at least one peptide having allele-specific binding motifs for HLA, useful for preventing, treating or diagnosing
                                                                                                                                                                                                                                                                                                   18-OCT-2001; 2001WO-US051650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (EPIM-) EPIMMUNE INC
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                                                                                                                                                   EPIMMUNE INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sidney J,
                                                                                       Sidney J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 À,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Southwood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            composition comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 26; DB 7; Le
Pred. No. 2.7e+03;
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RESULT 10
AAW21308
ID AAW213
AC AAW21
AC AAW21
XX 29-JU
DT 29-JU
DY Gluca
XX Hydro
KW Hydro
KW Compe
KW Charg
KW Alzhe
KW Alzhe
KW Alzhe
KW Alzhe
KW Hepat
XX Homo
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    from 30 lists given in the specification. Also disclosed is a method for inducing a cytotoxic T cell response against a pre-selected antigen in a patient expressing a specific MHC class I allele by contacting cytotoxic T cells from the patient with the composition cited above. The patient composition comprises an epitope that is joined by an amino acid linker. C composition comprises an epitope that is joined by an amino acid linker. The epitope is admixed or joined to a CTL or HTL epitope. The epitope is bound to an HLA molecule on the antigen-presenting cell, where when an A2 restricted cytotoxic lymphocyte (CTL) is present, a receptor of the CTL binds to a complex of the HLA molecule and the epitope. Specifically claimed are peptides having allele-specific binding motifs for HLA. The compositions and methods are useful for preventing, treating or diagnostic agents for evaluating immune responses, for making antibodies and for evaluating efficacy of a vaccine. Sequences given in ADM29251-ADM37745 represent epitopes of the invention as given in Tables 2-31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            competitive inhibitor; feedback regulator; synthesis; gastrin precursor; charge; polarity; farnesyl synthetase; plasminogen activator inhibitor 1. hydroxymethylglutaryl coenzyme A reductase; glucagon precursor; rhesus; gonadoliberin precursor; plasminogen activator inhibitor 2; prorenin; Alzheimer amyloid A4; corticotropin releasing factor binding protein; apolipoprotein E; herpes virus 1 glycoprotein B; HSV1; human; ONVVS; herpes virus 2 glycoprotein B; HSV2; collagenase; apolipoprotein A; Treponema pallidum membrane protein; TMPA; islet amyloid polypeptide; fibroblast MMPI; schistosoma elastase precursor; schistosomin; hepatitis delta antigen; rev protein; HIV; VILV; angiotensinogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hydrophilic; signal oligopeptide; hydrophilicity maxima; vaccine; SIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Glucagon precursor derived signal oligopeptide #13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          binding motits וסו השה, עי
viral diseases and cancer.
                                    WPI; 1995-263953/34
                                                                                                             Rath M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUL-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW21308;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; Page 52-379; 382pp; English.
                                                                                                                                                                                                                                                    14-JAN-1994;
                                                                                                                                                                                                                                                                                                                         12-JAN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAW21308 standard; peptide; 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a composition comprising at least one peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
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                                                                                                                                                                                                                                                    94US-00182248
                                                                                                                                                                                                                                                                                                                         95WO-US000575.
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Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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2.7e+03;
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                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                           protein and are represented by the hydrophilicity maxima of the protein. These peptides are enriched in charged amino acids arranged with neutral spacer amino acids. The specific signal character of these oligopeptides is determined by a characteristic combination of conformation and charge within the signal sequence. These oligopeptides may be used as vaccines in the treatment of human disease, as competitive inhibitors to prevent or reduce the metabolic action or interaction of a selected protein by blocking its specific signal sequences, or as therapeutic agents to function as feedback regulators to reduce synthesis rate of a selected protein. These peptides may be modified by omitting one or more amino acids at the N- and/or C-terminal, by substituting one or more amino acids without consideration of charge and polarity, by substituting one or more amino acids without consideration acids residues with similar charge and/or cormore amino acids with amino acid residues with similar charge and/or cormore amino acids with amino acid residues with similar charge and/or cormore amino acids at the N- and/or charge and polarity, by substituting one or more amino acids with amino acid residues with similar charge and/or charge and/or charge and/or charge and polarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying signal oligopeptide(s) in protein sequence(s) - shown as regions of max. hydrophilicity, used in modulating communication bety protein(s).
                                                                                                                                                                                                    Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The sequences given in AAW21201-560 represent hydrophilic signal oligopeptides. These signal oligopeptides are localised on the surface of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 5; Page
                                                                                                                             Local
                                                                                            l Similarity
5; Conserv
  YSKYLDNRRAK 12
                                              YEKYLGEEYVK 11
                                                                                                                                                                                                                                                           by omitting one or more amino acids or a combination of these
                                                                                                                                                                                                         AA;
                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40; 88pp; English
                                                                                                                          36.8%;
                                                                                                    <u>.</u>
                                                                                                                          Score 25;
Pred. No.
                                                                                                    Mismatches
                                                                                                                             .9e+03;
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ص
                                                                                                                                                      Length 13;
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RESULT 11
AAW21301
ID AAW21301
AC AAW21
AC AAW21
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AC Gluca
AC CAMPA
AC CAMPA
AC CAMPA
AC AAW21
AC AAW21 Hydrophilic; signal oligopeptide; hydrophilicity maxima; vaccine; SIV; competitive inhibitor; feedback regulator; synthesis; gastrin precursor; charge; polarity; farnesyl synthetase; plasminogen activator inhibitor 1, hydroxymethylglutaryl coenzyme A reductase; glucagon precursor; rhesus; gonadoliberin precursor; plasminogen activator inhibitor 2; prorenin; Alzheimer amyloid A4; corticotropin releasing factor binding protein; apolipoprotein E; herpes virus 1 glycoprotein B; HSV1; human; OMVVS; herpes virus 2 glycoprotein B; HSV2; collagenase; apolipoprotein A; Treponema pallidum membrane protein; TMPA; islet amyloid polypeptide; fibroblast MMP1; schistosoma elastase precursor; schistosomin; hepatitis delta antigen; rev protein; HIV; VIIV; angiotensinogen. Glucagon precursor derived signal oligopeptide #6 29-JUL-1997 AAW21301 standard; peptide; 13 WO9519568-A1 Homo sapiens (first entry)

WPI; 1995-263953/34.

14-JAN-1994; 12-JAN-1995;

94US-00182248 95WO-US000575

(RATH/) RATH

Identifying signal oligopeptide(s) in protein sequence(s) -

shown as

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ARESULT 12
AAW21313
ID AAW21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hydroxymethylglutaryl coenzyme A reductase; glučagon precursor; rhesus; gonadoliberin precursor; plasminogen activator inhibitor 2; prorenin; Alzheimer amyloid A4; corticotropin releasing factor binding protein; apolipoprotein E; herpes virus 1 glycoprotein B; HSV1; human; OMVVS; herpes virus 2 glycoprotein B; HSV2; collagenase; apolipoprotein A; Treponema pallidum membrane protein; TMPA; islet amyloid polypeptide; fibroblast MMP1; schistosoma elastase precursor; schistosomin; hepatitis delta antigen; rev protein; HIV; VIIV; angiotensinogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hydrophilic; signal oligopeptide; hydrophilicity maxima; vaccine; SIV; competitive inhibitor; feedback regulator; synthesis; gastrin precursor; charge; polarity; farnesyl synthetase; plasminogen activator inhibitor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Glucagon precursor derived signal oligopeptide #18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW21313 standard; peptide; 13 AA
Identifying signal oligopeptide(s) in protein sequence(s) - shown as regions of max. hydrophilicity, used in modulating communication bet
                                                                                                                                                                                                                                                                                                                                14-JAN-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein(s).
                                                                                                               WPI; 1995-263953/34.
                                                                                                                                                                                                                                                                                                                                                                                                      12-JAN-1995;
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                                                                                                                                                                                                                                                         (RATH/) RATH
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45.5%;
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Pred. No. 3.9e+03;
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   communication between
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peripheral nervous system disorder; postoperative nerve damage; traumatic nerve damage; impaired myelination; post-ischaemic damage; stroke; Parkinson's disease; Alzhelmer's disease; Huntington's disease; dementia; multiinfarct dementia; sclerosis; nerve degeneration; diabetes mellitus; schizophrenia; mood disorder; manic depression; neuro-muscular connection; organ transplantation; genetic atrophic muscle disorder; traumatic atrophic muscle disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor binding site; neuroprotective; vulnerary; antidiabetic; nephrotropic; gene therapy; fibroblast growth factor receptor; FGFR receptor ligand; neural cell adhesion molecule; NCAM; solid tumour; neoangiogenesis; central nervous system disorder;
                                                  Berezin V,
                                                                                                                                                      20-DEC-2002; 2002DK-00001982
03-MAR-2003; 2003DK-00000330
                                                                                                                                                                                                                                         18-DEC-2003; 2003WO-DK000901.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein interaction modulation; cell-surface receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-SEP-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                WO2004056865-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                     wound-healing; revascularisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Putative fat-like cadherin precursor FGFR binding motif peptide SEQ:32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polarity, by omitting one or more amino acids or a combination of these
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                                                                                                       (ENKA-) ENKAM PHARM AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 degenerative condition; acute myocardial infarction; anglogenesis,
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                                                  Albrechtsen
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                                                  Bock E;
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Pred. No. 3.9e+03;
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WPI; 2004-517671/49

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cc between at least two different proteins, where one of the graphent or by a polypeptide having a binding site to the receptor, where cat east apart of the binding site comprises at least one of the graphent or cat least apart of the binding site comprises at least one of the cat least apart of the binding site comprises at least one of the cat least apart of the homologues of the sequences, or fragments or cat least the father of the polypeptide in the receptor and/or polypeptide to interfere with the receptor and/or polypeptide to interfere with the compound of step (1) to at least two different proteins. The compound has neuroprotective, vulnerary, antidiabetic and nephrotropic activities, and can be used in gene therapy. The method is useful in modulating the interaction between at least two different proteins, where one of the proteins is represented by a functional cell-surface receptor, selected from the family of fibroblast growth factor receptors (FGFRs), and the compouent and proteins is represented by a functional cell-surface receptor, selected from the family of fibroblast growth factor receptors (FGFRs), and the content protein is the receptor ligand. A compound capable of modulating the interaction between at least two different proteins, where one of the proteins is represented by a functional cell-surface receptor, selected the interaction between at least two different proteins, where one of the proteins is represented by a functional cell-surface receptor, selected cells; solid tumour requiring neoanglogenesis; diseases and conditions of the central and peripheral nervous system, of the muscles or of various of the central and peripheral nervous system, of the muscles or of various of the central modulation of nerve damage, traumatic nerve damage, e.g., postoperative nerve damage, traumatic nerve damage, e.g., cells; solid understantion associated with diabetes mellitus, disorders affecting the circadian clock or neuro-meaning the selected selecting the circadian clock or neuro-meaning the s
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the circadian clock or neuro-muscular transmission, and schizophrenia, mood disorders, such as manic depression; diseases or conditions of the muscles including conditions with impaired function of neuro-muscular connections, such as after organ transplantation, or such as genetic or traumatic atrophic muscle disorders; degenerative conditions of the gonads, of the pancreas such as diabetes mellitus type I and II, of the kidney such as nephrosis or of the heart, liver and bowel; for preventing cell death of heart muscle cells, such as after acute myocardial infarction, or after angiogenesis; for promoting wound-healing; for revasculariation, or for stimulating the ability to learn and/or the
Respiratory infection; human; interleukin-9 antagonist; IL-9; respiratory syncytial virus; anti-RSV antigen antibody; leukotriene modifier; asthma-like symptom; wheezing; allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Modulating the interaction between at least two different proteins by providing a compound capable of interfering with the receptor and the polypeptide interaction and presenting the compound to the different
                                                                                                   Human 4D4com-XF-9 variable heavy chain (VH)
                                                                                                                                                                                                           ADU07237
                                                                                                                                                                                                                                                           ADU07237 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a method for modulating the interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 45; SEQ ID NO 32; 154pp; English.
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Conservative

36.8%; 50.0%;

Score 25; I Pred. No. 3

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commented nutriner compities administering at leukoritem modifier, which is come thod of preventing the development, onset or progression of asthma or come or more asthma-like symptoms in a child, a method of preventing, comanging, treating or ameliorating wheezing in a pre-term infant, infant or child, a method of preventing, managing, treating or ameliorating wheezing in a pre-term infant, infant cor child, a method of preventing, managing, treating or ameliorating wheezing in a pre-term infant, infant or child, a method of preventing, managing, treating or ameliorating the development, onset or progression of asthma or one or more asthma-like symptoms in a child having or previously having a respiratory infection comprises administering an IL-9 antagonist.

Creptaratory infection comprises administering an IL-9 antagonist. The method further comprises administering an IL-9 antagonist. The inflammatory agent, an anti-viral agent, an anti-orating managing, treating or ameliorating wheezing in a human subject comprises administration of an IL-9 antagonist. The therapy that is not administration of an IL-9 antagonist. Preventing, managing, treating or ameliorating wheezing in a human subject comprises administration of an IL-9 antagonist. The therapy is an immunomodulatory agent, an anti-viral agent, an anti-block, an anti-histamine, an anti-block, an anti-histamine, and anti-
The invention relates to a method of managing, treating or ameliorating a respiratory infection or its symptom in a human subject by administering an interleukin-9 (IL-9) antagonist. The method further comprises administering to the subject an anti-respiratory syncytial virus (anti-RSV) antigen antibody. The anti-RSV antigen antibody is palivizumab. The method further comprises administering a leukotriene modifier, which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Managing, treating or ameliorating in a human subject a respiratory infection or its symptoms caused by bacteria, fungi or respiratory syncytial virus by administering an IL-9 antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunomodulatory; anti-inflammatory; anti-viral; antibiotic; antifungal; mast cell modulator; virucide; antibacterial; fungicide; antiasthmatic; antiallergic; 404com-XF-9 antibody; variable heavy chain; VH; complementarity determining region; CDR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 12; 276pp; English
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10-JUN-2003; 2003US-0477801P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-APR-2004; 2004WO-US011329.
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                3 YYGSDHVK 10
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ADT88304 standard; peptide; 13 AA

ADT88304;

13-JAN-2005 (first entry)

Human IL-19 antibody variable heavy domain CDR3 seqid 12.

antiallergic; antiarthritic; neuroprotective; antirheumatic; immunotoxin; angiogenesis inhibitor; TNF alpha antagonist; IL-9 antagonist; II-9; IL-9 antibody; 404; 404 H2-1 Dll; 404com-XF9; 404com-ZF9; 7F3; 71All0; 22D3; 7F3com-2H2; 7F3com-3H5; 7F3com-3D4; IL-9 associated disorder; respiratory infection; respiratory syncytial virus; parainfluenza virus; human metapneumovirus; inflammatory disorder; asthma; allergy; arthritis; autoimmune disorder; rheumatoid arthritis; multiple sclerosis; variable heavy domain; complementarity determining region 3; CDR3. respiratory; antiinflammatory; immunosuppressive; antiasthmatic;

Homo sapiens

WO2004091510-A2

28-OCT-2004.

12-APR-2004; 2004WO-US011172

11-APR-2003; 2003US-0462259P. 10-JUN-2003; 2003US-0477797P.

(MEDI-) MEDIMMUNE INC.

Reed JL;

WPI; 2004-775520/76.

New IL-9 antibody comprising a variable heavy or light domain or a complementarity determining region having an amino acid sequence of e.g., 401, useful in treating or preventing e.g., respiratory infection or inflammatory disorder.

Disclosure; SEQ ID NO 12; 291pp; English.

The invention describes a new IL-9 antibody comprising: a variable heavy CC (VH) or variable light (VL) domain having an amino acid sequence of the CC (VH) or variable light (VL) domain having an amino acid sequence of the CC (VH) or vL domain of 4D4, 4D4 H2-1 D11, 4D4com-2F9, 7F3, 71A10, CC 2D3, 7F3com-2H2, 7F3com-3H5 or 7F3com-3D4; or a complementarity CC determining region (CDR) having an amino acid sequence of a CDR of 4D4, 4D4 H2-1 D11, 4D4com-2F9, 7F3, 7H310, 22D3, 7F3com-2H2, CC 7F3com-3H5 or 7

antibody variable heavy domain complementarity determining region

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Search completed: June 13, Job time : 196 secs 2006, 03:05:58

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T-cell antigen rec calreticulin, hepa Ig kappa-1 chain J photosystem I 9K c lymnaDFamide 3 - g neurotensin - guin T-cell antigen rec plandular kallikre T-cell antigen rec T-cell antigen rec Ig H Chain V-D-J r T-cell receptor al phosphopyruvate hy serine proteinase
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	Query Match Best Local Matches	RESULT 2 \$47359 \$47359 \$759ecies: Homo sapiens (man) C;Species: Homo sapiens (man) C;Accession: \$6-Jan-1.995 #sequencerevisi C;Accession: \$47359 R;Lehner, P.J. submitted to the EMBL Data Library, A;Description: Human HLA-A0201 restr A;Reference number: \$47355 A;Accession: \$47359 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-13 <-LEH> A;Cross-references: UNIPARC:UPI00001 C;Keywords: T-cell receptor		Query Match Best Local Matches	RESULT 1 PH1479 T-cell receptor beta chain (clone A3/C;Species: Mus musculus (house mouse) C;Species: Mus musculus (house mouse) C;Date: 10-Mar-1994 #sequence_revisic C;Accession: PH1479 R;Casanova, J.L.; Martinon, F.; Gourr J. Exp. Med. 177, 811-820, 1993 A;Tille: T cell receptor selection by A;Reference number: PH1430; MUID:9317 A;Accession: PH1479 A;Molecule type: mRNN A;Residues: 1-13 cCAS> A;Cross-references: UNIPARC:UPI000017 A;Experimental source: cytolytic T-Ly C;Keywords: receptor; T-cell		00000000000000000000000000000000000000
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	.48; .08;	rev rev bran 1 rev		4 4	n (clone ) house mous ence_revio n, F.; Goo n, Edition 0; MUID:9; ence_revious columns revious		000000000000000000
	Score 20; DB 2; Len Pred. No. 3.5e+03; 1; Mismatches 0;	beta chain - humar on 06-Jan-1995 #te August 1994 icted recognition		Score 26; DB 2; Len Pred. No. 3.3e+02; 1; Mismatches 1;	72.2) - mouse n 10-Mar-1994 lier, H.; Barra and recogniti 1821; PMID:843	ALIGNMENTS	A28953 S39413 S39413 S201119 B201119 A0031 PA0031 PA0031 PA0031 PA1596 PH1593 PH1596 PH0787 PH0928 A32453 G22565 C61576 C61576
	Length 13; ; Indels 0; Gaps 0;	1 ext_change 05-Nov-1999 of influenza A is dominated by T c		Length 13; ; Indels 0; Gaps 0;	<pre>(fragment) #text_change 15-Mar-2004 , C.; Pannetier, C.; Regnault, A.; Ko on of two class I major histocompatib 6911</pre>		alpha-conotoxin SI tubulin beta chain photosystem II pro microbial collagen protein QA300045 - osteoclast functio tubulin alpha-chai IG kappa-1 chain J IG H chain V-D-J r IG H ceaptor al T-cell receptor al T-cell receptor be phloroglucinol red R-phycoerythrin ga ribosomal protein extracellular lipa

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T-cell antigen receptor VJ junction beta chain - human C;Species: Homo sapiens (man) C;Date: 06-Jan-1995 #sequence revision 06-Jan-1995 #text change 05-Nov-1999 C;Accession: $47365; $47375; $47379; $47396; $47397; $47398; $47355 R;Lehner, P.J.
                                                                                                                                                                                                                 A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-13 <LE5>
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A; Residues: 1-13 < LE2>
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C;Date: 06-Jan-1995 #seq
C;Accession: $47361
R;Lehner, P.J.
                                                                                                                                                                                                                                                                  A;Cross-references: UNIPARC:UPI0000116673; A;Accession: $47397
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A; Residues: 1-13 <LE3>
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                                                                                           Molecule type: mRNA
Residues: 1-13 <LE6>
Cross-references: UNIPARC:UPI0000116673;
Keywords: T-cell receptor
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Residues: 1-13 <LE4>
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75.0%;
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Pred. No. 3.5e+03;
1; Mismatches C
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                                                                                                             EMBL: Z35676; NID: g527531;
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3.5e+03;
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A; Reference number:
A; Accession: S47383
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A;Residues: 1-13 <LEH>
A;Cross-references: UNIPARC
C;Keywords: T-cell receptor
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A; Status: preliminary
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A; Residues: 1-13 < LEH >
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RESULT 7
$47383
T-cell antigen receptor VJ junction beta chain - hum
C; Species: Homo sapiens (man)
C; Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #
C; Accession: $47383
R; Lehner, P.J.
submitted to the EMBL Data Library, August 1994
**. Proportion: Human HLA-A0201 restricted recogniti
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$47372
T-cell antigen receptor VJ junction beta chain -
C:Species: Homo sapiens (man)
C:Date: 06-Jan-1995 #sequence_revision 06-Jan-199
C:Accession: $47372
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$47368
T-cell antigen receptor VJ junction beta chain -
C:Species: Homo sapiens (man)
C:Date: 06-Jan-1995 #sequence_revision 06-Jan-199
C:Accession: $47368
A;Molecule type: mRNA
A;Residues: 1-13 <LEH>
A;Cross-references: UNIPARC:UPI000011668D; EMBL:Z35709; NID:g527513; PIDN:CAA84778.1;
C;Keywords: T-cell receptor
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A,Description: Human HLA-A0201 restricted recognition
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1; Mismatches
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C;Species
C;Date: 00
C;Accession
R;Lehner,
antigen 7H8/2 - malaria parasite (Plasmodium C;Species: Plasmodium falciparum C;Date: 30-Sep-1993 #sequence_revision 30-Sep C;Accession: E60396 R;Limpaiboon, T.; Taylor, D.W.; Jones, G.; Ge
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A;Molecule type: mRNA
A;Residues: 1-13 <LEH>
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A;Molecule type: mRNA
A;Residues: 1-13 <LEH>
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A; Residues: 1-13 <LE2>
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Matches 3
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;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995
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1; Mismatches 0
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C;Date: 20-Jul-1970 movane...
C;Accession: A32734
R;Micanovic, R; Ray, P.; Kruggel, W.; Lewis, R.V.
R;Micanovic, R.; Ray, P.; Kruggel, W.; Lewis, R.V.
Biochem. Blophys. Res. Commun. 118, 299-303, 1984
A;Title: Purification and sequence of an opioid peptide
A;Reference number: A32734; MUID:84128045; PMID:6546517
                                                                                                                                                                                                                                                J. Protein Chem. 10, 415-425, 1991
A;Title: Clostridium botulinum types A, B, C1, and E produce proteins with or without he A;Reference number: A44644; MUID:92143938; PMID:1781887
A;Contents: type B
A;Accession: G44644
                                                                                                                                                                                                                                                                                                                                                                         neurotoxin-associated protein type B Hn+ 35K chain, C;Species: Clostridium botulinum C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994
                                                                                                                                                         A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-13 <SOM>
A;Cross-references: UNIPROT:Q9R5N5; UNIPARC:UPI00000B9B79
A;Note: sequence extracted from NCBI backbone (NCBIP:83785)
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A32734
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A;Molecule type: DNA
A;Residus: 1-13 <LIM>
A;Cross-references: UNIPARC:UPI000017B5EF; GB:M31305
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A;Residues: 1-13 <MIC>
A;Cross-references: UNIPROT:Q7M2Z6; UNIPARC:UPI00001765B8
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                                                                                                                                         ;Keywords: hemagglutinin
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                                                                     Score 18; DB 2; 1
Pred. No. 7.7e+03;
3; Mismatches 4
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#text_change 09-Jul-2004
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RESULT 15
S47373
T-cell antigen receptor VJ junction beta chain - human
C:Species: Homo sapiens (man)
C:Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 05-Nov-1999
C:Accession: S47373
R;Lehner, P.J.
Submitted to the EMBL Data Library, August 1994
A;Description: Human HLA-A0201 restricted recognition of influenza A is dominated by T c
A;Reference number: S47373
A;Accession: S47373
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-13 <LEH>
A;Cross-references: UNIPARC:UPI0000116671; EMBL:Z35672; NID:g527489; PIDN:CAA84741.1; PI
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Accession: PT0290
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: PT0292; MUID:91108337; PMID:1899102
A;Molecule type: DNA
A;Residues: 1-13 < NANY
A;Residues: 1-13 < NA
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C;Species: Homo sapiens (man)
C;Date: 30-Sep_1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0263
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0263
A;Molecule type: DNA
A;Residues: 1-13 <YAM's A;Residues: 1-13 <YAM's A;Residues: 1-13 <YAM's A;Residues: heterotetramer; immunoglobulin
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A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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Perfect score:
Sequence:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

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Best Local S
Matches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=MHOM/BR/00/1669;
PubMed=15888291; DOI=10.1016/j.exppara.2005.02.008;
Purdy J.E., Donelaon J.E., Wilson M.E.;
"Leishmania chagasi: The alpha-tubulin intercoding region results in constant levels of mRNA abundance despite protein synthesis inhibition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOD_RES
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q6S4R5_LEICH
Q6S4R5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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-I- SUBCELLULAR LOCATION: Secreted protein.
-I- TISSUE SPECIFICITY: Expressed by the skin glands.
-I- SIMILARITY: Belongs to the frog skin active peptide (FSAP) Brevinin subfamily.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.
NCBI_TaxID=44271;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-JUL-2004, integrated into UniProtKB/TrEMBL 05-JUL-2004, sequence version 1.
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                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; AY466450; AAR88132.1; -; Genomic_DNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Amidation; Amphibian defense peptide; Antibiotic; Antimicrobial;
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3; Conserv
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integrated into UniProtKB/TrEMBL sequence version 1.
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Pred. No. 4.2e+04;
2; Mismatches 1
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/FTId=PRO_0000043585.
Leucine amide.
9EBDCB1FAFF7C325 CRC6
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ID O33824 C
AC O3824 C
AC O3824 C
DT 01-MAY-1
DT 01-MAY-1
DT 01-MAY-1
DT 07-FEB-2
DE UDP-gala
GN Name=GAL
OS Candida
OC Eukaryot
OC Saccharo
OC NCBI Tax
RN NUCLEOTI
RC STRAIN=P
RA Kanai T.
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Matches
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Best Local 9
                                                       Matches
                                                                     Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                               Candida tropicalis (Yeast).
Eukaryota; Fungi; Ascomycota;
Saccharomycetales; mitosporic
NCBI_TaxID=5482;
                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-1999, integrated into UniProtKB/TrEMBL 01-MAY-1999, sequence version 1. 07-FBB-2006, entry version 13. UDP-galactose-4-epimerase (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PubMed=16081121; DOI=10.1016/j.virol.2005.07.003; Ilyushina N.A., Govorkova E.A., Webster R.G.; "Detection of amantadine-resistant variants among viruses isolated in North America and Asia."; Virology 341:102-106(2005).
                                                                                                               SEQÜENCE
                                                                                                                             Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                               093824_CANTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Name=M;
Influenza A virus (A/shorebird/Delaware/275/2001(H9N7)).
Virusea: 88RNA negative-strand viruses; Orthomyxoviridae;
                                                                                                                                                                                                                                                                         STRAIN=PK233
                                                                                                                                                                                                                                                                                                                                                                            Name=GAL10;
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                                                    Similarity 2; Conserv
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3; Conserv
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ilarity 50.0%;
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                                                       Conservative
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                                                                                                               1312 MW;
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33.3%;
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••
                                                      Mismatches
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Pred. No.
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Pred. No. 4.2e+04;
2; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                  Saccharomycotina; Saccharomycetes; Saccharomycetales; Candida.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13
                                                                      6.1e+04;
                                                                                  DB 2;
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RESULT 6
Q3KYR7\_PHOPO
ID Q3KYR7\_P

Q3KYR7\_PHOPO

PRELIMINARY;

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03KYR7; 08-NOV-2005, integrated into UniProtKB/TrEMBL. 08-NOV-2005, sequence version 1. 07-FEB-2006, entry version 3.

Name=luxE;

Acyl-protein synthetase

(Fragment)

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RESULT 7
Q86129 9RHAB
ID Q86129;
AC Q86129;
DT 01-NOV-1996, i
DT 07-FEB-2006, e
DT 07-FEB-2006, e
DT NS protein (FF
OS Vesicular sten
OC Viruses; ssRN/
OC Rhabdoviridae;
OX NCBI_TAXID=112
RN [1]
RN 
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RESULT 8
Q4YMR8_PLABE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-FEB-2006, entry version
NS protein (Fragment).
Vesicular stomatitis virus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Viruses; ssRNA negative-strand viruses; Mononegavirales; Rhabdoviridae; Dimarhabdovirus supergroup; Vesiculovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-1996, sequence version 07-FEB-2006, entry version 16.
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Vibrionaceae; Photobacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=11276;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=FS-4.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WEDLINE=80001959; PubMed=89911; DOI=10.1016/0092-8674(79)90274-5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   V01210; CAA24522.1; -; Genomic_RNA.
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RESULT 9
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ID Q7M2Z6_SHEEP
AC Q7M2Z6;
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PIR; A32734; A32734.

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SEQUENCE 13 AA; 13
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PubMed=15637271; DOI=10.1126/science.1103717;

Hall N., Karras M., Raine J.D., Carlton J.M., Kooij T.W.A.,

Hall N., Karras M., Raine J.D., Carlton J.M., Kooij T.W.A.,

Berriman M., Florens L., Janssen C.S., Pain A., Christophides of James K., Rutherford K., Harris B., Harris D., Churcher C.M.,

James K., Rutherford K., Harris B., Harris D., Churcher C.M.,

Quail M.A., Ormond D., Doggett J., Trueman H.E., Mendoza J.,

Bidwell S.L., Rajandream M.A., Carucci D.J., Yates J.R. III,

Kafatos F.C., Janse C.J., Barrell B.G., Turner C.M.R., Waters
                                                                                                                                                                                                                   [1]
PROTEIN SEQUENCE.
MEDLINE=84128045; PubMed=6546517;
Micanovic R., Ray P., Kruggel W., Lewis R.V.;
Micanovic R., and sequence of an opioid peptide derived from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-DEC-2003, integrated into Unil 15-DEC-2003, sequence version 1. 07-FEB-2006, entry version 8. Enkephalin precursor (Fragment). Ovis aries (Sheep).
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Hypothetical protein.
SEQUENCE 13 AA; 1620 MW; F4F2838E31621051 C
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05-JUL-2005, sequence versi
07-FBB-2006, entry version
Hypothetical protein.
ORFNames=PB400005.00.0;
                                                                                                                                       Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; Ovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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-i- CAUTION: The sequence shown here is derived from EMBL/GenBank/DDBJ whole genome shotgun (WGS) enti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q4YMR8_PLABE
Q4YMR8;
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Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium
                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9940;
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Query Match

26.5%;

Score 18;

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RESULT 11

O86260 KLEPN
O86260 KLEPN
D86260 KLEPN
PRELIMINARY; PRT; 13 AA.
AC
O86260;
DT 01-NOV-1998, integrated into UniProtKB/TrEMBL.
DT 01-NOV-1998, sequence version 1.
DT 07-FEB-2006, entry version 11.
DT 07-FEB-2006, entry version 11.

CT 07-FEB-2006, entry version 11.
DE TrxB protein (Fragment).
GN Name=trxB;
GN Name=trxB;
CS Klebsiella pneumoniae.
OC Bacteria; Proteobacteria; Gammaproteobacteria; En Cot Enterobacteria; En Cot Enterobacteria; Klebsiella.
OX NCBI_TaxID=573;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=M5a1;
RA Albrecht C., Kleiner D.;
RA Albrecht C., Kleiner D.;
CC Copyrighted by the UniProt Consortium, see http:/
CC Copyrighted by the UniProt Commons Attribution
CC Copyrighted by the UniProt Commons Attribution
CC Copyrighted by the UniProt Commons Attribution
CC EMBL; Y17587; CAA76799.1; -; Genomic_DNA.
FT NON TER 1
SQ SEQUENCE 13 AA; 1425 MW; 890C8715ECD2287A CRC
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ID Q9TU76;
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MEDLINE=99397042; PubMed=10467711;
Maddox J.F., Hawken R.J., Matthew P., Davies K.P.;
"Single strand conformational polymorphisms (SSCPs) in and IL6 genes.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordat
Mammalia; Eutheria; Lauras;
Pecora; Bovidae; Caprinae;
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07-FEB-2006, entry version 8.
Interleukin 1 alpha (Fragment).
                                                                                                                                          Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Klebsiella.
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prinae; Ovis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26.5%;
                                                                                                                                                                                                                                       to the EMBL/GenBank/DDBJ databases.
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Q9R5N5;
Q1-MAY-2000, integrated into UniProtKB/TrEMBL,
01-MAY-2000, sequence version 1.
07-FEB-2006, entry version 9.
07-FEB-2006, when 15 kDa SUBUNIT=BAND 3B
                                                                                                                                           Borge T., Webster M.T., Andersson G., Saetre G.-P.; "Contrasting Patterns of Polymorphism and Divergence Chromosome and Autosomes in Two Ficedula Flycatcher Scenetics 171:1861-1873(2005).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-JAN-2006, integrated into UniProtKB/TrEMBL 10-JAN-2006, sequence version 1. 07-FEB-2006, entry version 3.
  EMBL; AJ869811;
GO; GO:0003677;
                                                                     Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=59894;
                                                                                                                                                                                                                                                                                                                                                                             Ficedula albicollis (Collared flycatcher)
Eukaryota; Metazoa; Chordata; Craniata; V
                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=chdz;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chromo-helicase-DNA-binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequences and genes?";
J. Protein Chem. 10:415-425(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Clostridium botulinum types A, B, without hemagglutinating activity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROTEIN SEQUENCE.
MEDLINE=92143938; Pubmed=1781887;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neurotoxin type B HN+
Clostridium botulinum.
                                                                                                                                                                                                                                    PubMed=15956661; DOI=10.1534/genetics.105.045120
                                                                                                                                                                                                                                                               STRAIN-IC2
                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                              Archosauria; Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NON TER
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13 AA; 1539
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CAI35564.1; -; F:DNA binding;
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Pred. No. 8.9e
3; Mismatches
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1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                           Craniata; Vertel; Passeriformes;
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                   Genomic_DNA
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ormes; Muscicapidae; Ficed
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Species.";
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RESULT LITRU

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DT 01-MAY.

OC Eukary

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EI22 LITRU STANDARD;
E3298;
23-JAN-2002, integrated into UniProtKB/Swiss-Prot.
01-MAY-2000, sequence version 1.
07-FEB-2006, entry version 22.
91-ctrin-2.2.
91-ctrin-2.2.
91-ctrin-2.2.
91-ctrin-3.2.
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91-ctrin-3.2.
91-ctrin-3.2.
91-ctrin-3.2.
                                                                        Litoria rubella (Desert tree frog).

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;

Pelodryadinae; Litoria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Aust. J. Chem. 52:639-645(1999).
-i- SUBCELLULAR LOCATION: Secreted protein.
-i- TISSUE SPECIFICITY: Expressed by the skin glands.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-Skin secretion;
Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
"Peptides from the skin glands of the Australian buzzing tree frog
Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae; Pelodryadinae; Litoria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-JAN-2002, integrated into UniProtKB/Swiss-Prot.01-MAY-2000, sequence version 1.
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P82097;
TISSUE=Skin secretion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
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                 PROTEIN SEQUENCE.
                                                  NCBI_TaxID=104895;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROTEIN SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Litoria rubella (Desert tree frog).
                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                          7 EEYVK 11
                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 4; Conserv
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80.0%;
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Proline amide.
C1808EF326F57322 CRC64;
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Matches 4; Conserv
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SEQUENCE
                                                                                                                                                                                Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                 rubella.";
Aust. J. Chem. 52:639-645(1999).
                                                                                                                                                                                                                                                                          Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.; "Peptides from the skin glands of the Australian buzzing Litori electrica. Comparison with the skin peptides from
                                                                                                                                           Amidation; Amphibian defense peptide; Direct protein sequencing. PEPTIDE 1 13 Electrin-2.2.
                                                                                                                                                                                                                      -1- SUBCELLULAR LOCATION: Secreted protein.
                                                 4; Conservative
                        EEYVK 11
EEKVK 7
                                                                                                    13 AA;
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                                                                                                    1598 MW;
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80.0%;
                                              Score 17; DB 1;
Pred. No. 1.3e+05;
0; Mismatches 1
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Proline amide.
C1808EF33B357322 CRC64;
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                                                                          Length 13;
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EYVK 11

Matches Query Match Best Local

26.5%; Local Similarity 75.0%; hes 3; Conservative

1; Mismatches Score 18; DB 2; Pred. No. 8.9e+04;

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Gaps

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GO; GO:0004386; F:helicase activity; IEA. DNA-binding; Helicase.

SEQUENCE

13 AA; 1703 MW;

5FEBFF288DB81B53 CRC64;

Length 13; 0; Indels

13

Search Job tim rch completed: June 13, 2006, 03:10:57 time : 293 secs THIS PAGE BLANK (USPTO)

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Result
No.
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Maximum Match
Listing first
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re greater than or equal to the score of the result being printed,
is derived by analysis of the total score distribution.
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   protein search, using sw
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Match
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1. /EMC_Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*

2. /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*

3. /EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*

4. /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*

5. /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*

6. /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*

7. /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        June 13, 2006, 03:11:12 ; Search time 50 Seconds (without alignments) 22.758 Million cell updates/sec
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68
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               YEKYLGEEYVKAV 13
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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1 100%
: 45 summaries
US-09-534-717-494
US-08-465-325-135
US-09-15-737-135
US-09-060-450-8
US-09-060-450-8
US-09-759-484-7
US-10-146-305-14
5244657-2
US-08-480-190-40
US-08-480-397-40
US-08-480-379-40
US-09-171-945-33
US-09-077-615-22
US-08-475-399A-40
US-08-475-399A-40
US-08-175-399A-40
US-08-077-255A-40
US-08-077-255A-40
US-08-077-255A-40
US-08-077-255A-40
US-08-5908-168-98
US-08-5908-168-98
US-08-5908-168-22
US-08-594-447-6
US-08-594-447-6
US-08-594-447-6
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US-08-594-547-20
US-08-665-647-20
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Sequence 135, App
Sequence 135, App
Sequence 8, Appli
Sequence 7, Appli
Sequence 14, Appl
Patent No. 5244657
Sequence 40, Appl
Sequence 22, Appl
Sequence 33, Appl
Sequence 33, Appl
Sequence 108, Appl
Sequence 40, Appl
Sequence 40, Appl
Sequence 41, Appl
Sequence 118, Appl
Sequence 118, Appl
Sequence 118, Appl
Sequence 22, Appl
Sequence 22, Appl
Sequence 42, Appl
Sequence 42, Appl
Sequence 5, Appli
Sequence 6, Appli
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              STATE: D
COUNTRY:
ZIP: 200
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29.4	29.4	29.4	29.4	29.4	29.4	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
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US-09-126-420A-8	US-08-844-031-36	US-08-430-521-9	US-08-766-725A-17	US-07-932-455A-17	US-07-632-027-5	PCT-US94-10257A-26	US-09-820-053A-78	US-09-936-885A-26	US-09-756-247-35	US-09-756-247-14	US-09-379-297-4	US-09-539-879A-48	US-09-539-879A-47	US-09-319-730-10	US-08-895-590-90	US-08-895-590-89	US-08-374-077C-48
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence
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Appl	App	App1	App	App	Appl	App.	App	App	App	App	Appl	App	App.	App	App	App	App

# ALIGNMENTS

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APPLICANT: Jochen, Salfeld et al.
FITTE OF INVENTION: Human Antibodies That Bi
FILE REFERENCE: BBI-093CP
CURRENT APPLICATION NUMBER: US/09/534,717
CURRENT FILING DATE: 2000-03-24
EARLIER APPLICATION UNMBER: 60/126,603
EARLIER FILING DATE: March 25, 1999
NUMBER OF SEQ ID NOS: 675
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 494
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-534-717-494
                                                                                                                                                                                                                                                                                                                                                         RESULT 2
US-08-465-325-135
                                                                                                                                                                                                                                                                                                                 Sequence 135, Application US/08465325 Patent No. 5686563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                   APPLICANT: Magainin Pharmaceuticals Inc.
APPLICANT: 5110 Campus Drive
APPLICANT: 5110 Campus Drive
APPLICANT: Plymouth Meeting, PA 19462
TITLE OF INVENTION: Biologically Active Peptides Having
TITLE OF INVENTION: N-Terminal Substitutions
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
COMPUTER READABLE FORM:
                                                                          STREET: 1300 I. :
                                                                                                                ADDRESSEE: Finnegan,
ADDRESSEE: Dunner
                  20005-3315
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                                                                                                                                       Henderson, Farabow,
                                                                                                 N.W. Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 24; DB 2; Le
Pred. No. 8.3e+02;
1; Mismatches 2;
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

MEDIUM TYPE:

Floppy disk

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RESULT 3
US-09-115-737-135
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Patent No. 6348445
GENERAL INFORMATION:
APPLICANT: U. Prasad Kari
Taffy J. Williams
Michael McLane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,325
FILING DATE: 05-UN-1995
CLASSIFICATION 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/184,462
FILING DATE: 18-JAN-94
PRIOR APPLICATION DATA:
APPLICATION 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 135:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE:
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REGISTRATION NUMBER: 32,984
REFERENCE/DOCKET NUMBER: 05:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
                              APPLICATION NUMBER: US/09/115,737
FILING DATE: 15-Jul-1998
CLASSIFICATION: CUNKnown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/465,330
FILING DATE: 05-JUN-1995
APPLICATION NUMBER: 08/184,462
FILING DATE: 18-JAN-94
FILING DATE: 18-JAN-94
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TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 2005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.3
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Biologically Active Peptides With Reduced Toxicity in Animals and a Method for Preparing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 KYLGEEYVK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
STREET: 1300 I Street, N.W. Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: D.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Washington
APPLICATION NUMBER: 07/891,201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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Sequence 7, Application US/09759484

Patent NO. 6858579

GENERAL INFORMATION:
APPLICANT: William Harvey Research Limited
TITLE OF INVENTION: Anti-inflammatory compounds
FILE REFERENCE: P019602WO
CURRENT APPLICATION NUMBER: US/09/759,484
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 8
SOFTMARE: PatentIn Ver. 2.1
SEQ ID NO 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Narion, Elizabeth
APPLICANT: Narion, Alberto
TITLE OF INVENTION: UNIVERSAL T-CELL EPITOPES FOR ANTI-MALARIAL VACCINES
FILE REFERENCE: 5986/18615-US1
CURRENT FILING DATE: 1998-01-21
EARLIER APPLICATION NUMBER: 60/033,916
EARLIER FILING DATE: 1997-01-21
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 8
LENGTH: 13
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 8, Application US/09060450 Patent No. 6669945
                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                                                                                                                                                                                                                                    Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE: OTHER INFORMATION: UD4 peptide containing DR 4 allele specific binding OTHER INFORMATION: motifs for use as indicator peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (202) 408-4400 INFORMATION FOR SEQ ID NO: 135:
                                                                                                                                                                                                                                                                                                                                                               Local Similarity nes 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
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ATTORNEY/AGENT INFORMATION:
NAME: Fordis, Jean B
REGISTRATION NUMBER: 32,984
REFERENCE/DOCKET NUMBER: 05387.0021-06000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide SEQUENCE DESCRIPTION: SEQ ID NO: 135:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                           1 YEKYLGEEYVKA 12
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TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                          YPKFVKQNTLKA 12
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Pred. No. 1
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Pred. No. 1.2e+03;
4; Mismatches 4
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RESULT 7
5244657-2
;PATCHT NO. 5244657
; PATCHT NO. 5244657
; APPLICANT: KLIEN, MICHEL A.;BOUX, HEATHER A.;COCKLE,
;STEPHEN A.;LOOSMORE, SHEENA M.;ZEALEY, GAVIN R.
;STEPHEN A.;LOOSMORE, SHEENA M.;ZEALEY, GAVIN R.
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US-10-146-305-14
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US-10-146-305-14
                                                                                                                     5244657-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: KR 10-2001-26634; PRIOR FILING DATE: 2001-05-16
NUMBER OF SEQ ID NOS: 14
SOFTWARE: KOPALENTIN 1.71
SEQ ID NO 14
LENGTH: 2001-05-16
                                                         Query Match
Best Local S
Matches 4
                                                                                                                                                 SEQ ID NO:2:
                                                                                                                                                                                                                                                                          TOXIN
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Best Local Similarity 5...
Thes 4; Conservative
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APPLICANT: YUHAN CORPORATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
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                                                                                                                                                           NUMBER OF SEQUENCES: 10
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/589,423
FILING DATE: 28-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 275,376
FILING DATE: 23-NOV-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: OV17440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: A VARIABLE REGION OF THE MONOCLONAL ANTIBODY AGAINST THE HBV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
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                              1 YEKYL 5
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                                                          4; Conservative
                                                                        Similarity
YESYL 12
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57.1%;
                                                                       33.8%;
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Pred. No. 1.2e+03;
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Pred. No. 1.2e+03;
                                                                       Score 23; DB 7;
Pred. No. 1.2e+03
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US-08-596-387B-22
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                                                                                                                                                                  Sequence 22, Application US/08596387B Patent No. 5869270
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                                                                                                                                                                                                                                                                                                                                                                                            Query Match
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: 3.5" Diskette, 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/077,255
FILING DATE: June 15, 1993
APPLICATION NUMBER: 07/925,460
APPLICATION NUMBER: 11, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 200154
INFORMATION FOR SEQ ID NO:
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APPLICANT: Robert
APPLICANT: Roman (
                             APPLICANT: Rhode, Peter R.
APPLICANT: Jiao, Jin-An
APPLICANT: Burkhardt, Martin
APPLICANT: Wong, Hing
TITLE OF INVENTION: MHC COMPLEXES AND USES THEREOF
NUMBER OF SEQUENCES: 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00246/168001
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Jack L. Strominger
TITLE OF INVENTION: IMMUNOMODULATORY PEPTIDES
NUMBER OF SEQUENCES: 274
CORRESPONDENCE ADDRESS:
ADDRESSEB: Fish & Richardson
                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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TOPOLOGY: li
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TELEFAX: (617) 542-8906
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ZIP: 02110-2804
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Dario A. A. Vignali
Mary L. Hedley
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Dade International, Inc
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Pred. No. 1.
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1.9e+03;
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STREET: CITY: D STATE:

Deerfield : Illinois

1717 Deerfield Road

60015

USA

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US-08-488-379-40; Sequence 40, Application US/08488379
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TOPOLOGY:
US-08-596-387B-22
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TELEFAX: (708) 267-5376
INFORMATION FOR SEQ ID NO: 22
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Robert
APPLICANT: Roman M
APPLICANT: Mario A
APPLICANT: Mary L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/596,387B
FILING DATE:
CLASSIFICATION DATA:
APPLICATION NUMBER: PCT/US95/09816
FILING DATE: 31-UUL-1995
PRIOR APPLICATION NUMBER: PCT/US95/09816
FILING DATE: 31-UUL-1995
PRIOR APPLICATION NUMBER: US 08/382,454
FILING DATE: 01-FEB-1995
PRIOR APPLICATION NUMBER: US 08/382,454
FILING DATE: 01-FEB-1995
PRIOR APPLICATION NUMBER: US 08/283,302
FILING DATE: 29-UUL-1994
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 32,369
REFERENCE/DOCKET NUMBER: 37,369
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                               APPLICANT: Lawrence J. Stern
APPLICANT: Jack L. Strominger
TITLE OF INVENTION: IMMUNOMODULATORY PEPTIDES
NUMBER OF SEQUENCES: 274
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                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
                                                                                                                                                                                                                                 CITY: Boston
                                                                                                                                                                                                                                                                STREET:
                                                                                                                                                                                COUNTRY:
                                                                                                                                                    E: Massachusetts
TRY: U.S.A.
02110-2804
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                                                                                                                                                                                                                                                                225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                Mary L. Hedley
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Roman M. Chicz
Dario A. A. Vignali
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Robert G. Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              32.4%; Score 22; DB ilarity 100.0%; Pred. No. 1.9 Conservative 0; Mismatches
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RESULT 12 US-09-067-615-22

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US-09-171-945-33
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                                                                                                                                   ; OTHER INFORMATION: Description of Artificial Sequence: humanized
US-09-171-945-33
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                                                                                                                                                                                                                                        SOFTWARE: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 33, Application US/09171945 Patent No. 6277599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 32.4%;
Best Local Similarity 42.9%;
Matches 3; Conservative
                                                                                 Query Match
Best Local (
                                                                Matches
                                                                                                                                                                                                                                                                                                                                    APPLICANT: Emery, Stephen
APPLICANT: Copley, Clive Graham
APPLICANT: Copley, Clive Graham
APPLICANT: Copley, Clive Graham
APPLICANT: Edge, Michael Derek
TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said
TITLE OF INVENTION: Monoclonal Antibody to CEA
CURRENT APPLICATION NUMBER: US/09/171,945
CURRENT FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: GB9703103.3
PRIOR FILING DATE: 1997-02-14
PRIOR APPLICATION NUMBER: GB9609405.7
PRIOR APPLICATION NUMBER: GB9609405.7
                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 1996-05-04
PRIOR APPLICATION NUMBER: PCT/GB97/01165
PRIOR FILING DATE: 1997-04-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: AUGUST 11, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00246/168001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-8906
TELEPHONE: (617) 542-8906
                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08
FILLING DATE: June 15,
APPLICATION NUMBER: 07
                                                                                                                                                                                                                          LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
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TELEFAX: 200154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
u
                                1 YEKYLGEEY 9
                                                             h 32.4%;
Similarity 44.4%;
4; Conservative
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YAGYLAMDY 13
                                                                                                                                                                                                                                                            PatentIn Ver.
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                                                                                                                                                                                                                                                              2.1
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                                                                                   Score 22; DB 2;
Pred. No. 1.9e+03;
                                                                  Mismatches
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1.9e+03;
                                                                                                   Length 13
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                                                                    Indels
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Application US/09067615

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RESULT 13
US-09-374-671A-108
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                                                                                                                                                                     Sequence 108, Application US/09374671A Patent No. 6489118 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22,
                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (708) 267-5376
INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/382,454
FILING DATE: 01-FEB-1995
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 29-JUL-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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                                                                                                                                                                                                                                                                                                                                            / Match 32.4%; Score 22; Decal Similarity 100.0%; Pred. No. 1.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 13 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 1/1
CTTY: Deerfield
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/067,615 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 08/283,302 FILING DATE: 29-JUL-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESSE: Amy E. Mandragouras
STREET: 28 State Street
                                                                                                                                                    APPLICANT: Morgenstern, Jay P.
                                                        NUMBER OF SEQUENCES:
                                                                                         TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60015
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: Dade International, Inc
1717 Deerfield Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rhode, Peter R.
Jiao, Jin-An
Burkhardt, Martin
                                                                      INVENTION: Allergenic Protein and Peptides from Dog
Dander and Uses Therefor
                                                                                                     Bizindaukas, Christine B.
Brauer, Andrew W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>8</u>
                                                                                                                                      Konieczny, Andrzej
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                                                        109
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                                                                                                                                                                                                                                                                                                                                                                        1.9e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Vignali, Dario A.A.
APPLICANT: Hedley, Mary L.
APPLICANT: Stern, Lawrence J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 108: SEQUENCE CHARACTERISTICS: LENGTH: 13 amino acids TYPE: amino acid
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,399A
FILING DATE: 07-UN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/077,255
                                                                                                                                                              COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 276
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Strominger, Jack L.
TITLE OF INVENTION: IMMUNOMODULATORY PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/09/374,671A
FILING DATE: 16-Aug-1999
PRIOR APPLICATION DATE: 48-Aug-1999
PRIOR APPLICATION NUMBER: US 08/156,549
FILING DATE: 1993-NOV-22
APPLICATION NUMBER: US 07/999,712
APPLICATION NUMBER: US 07/999,712
FILING DATE: 1992-DEC-31
ATTORNEY/AGENT INFORMATION:
NAME: DIGIORGIO, Jeanne M.
REGISTRATION NUMBER: 41,710
REGISTRATION NUMBER: 1MI-026C2CNCPA
TELECHONE: (617) 227-7400
TELEPHONE: (617) 742-4214
                                                                                                                                                                                                                                                                          STREET: 225
CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Match 32.4%;
Local Similarity 50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: ASCII Text CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: peptide FRAGMENT TYPE: internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE DESCRIPTION: SEQ ID NO: 108:
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STATE: MA
COUNTRY: USA
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                                                                                                                                                                                                                                                                                              225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dario A.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 22; DB 2;
Pred. No. 1.9e+03;
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REFERENCE/DOCKET NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00246/168003
FELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-890
TELEX: 200154
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-475-399A-40
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: PYKETT, Mark J.

APPLICANT: SCADDEN, David T.

APPLICANT: SCADDEN, David T.

APPLICANT: POZNANSKY, Mark C.

ITITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION

ITITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL

ITITLE OF INVENTION: PROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL

ITITLE OF INVENTION NUMBER: US5/99574,749B

CURRENT FILING DATE: 2002-05-31

PRIOR APPLICATION NUMBER: US 60/107,972

PRIOR APPLICATION NUMBER: US 60/107,972

PRIOR APPLICATION NUMBER: US 60/107,972

PRIOR APPLICATION NUMBER: US 09/524,749

PRIOR FILING DATE: 1999-11-12

PRIOR APPLICATION NUMBER: US 09/524,749

PRIOR APPLICATION NUMBER: US 09/524,749

PRIOR FILING DATE: 1999-11-12

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 45

SEQ ID NO 45

LENGTH: 13

TYPE: PRIOR APPLICATION SECONDOWN Version 3.0
Search completed: June 13, 2006, 03:12:35
Job time : 51 secs
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US-09-574-749B-45
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                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Influenza source US-09-574-749B-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 32.4%; Score 22; DB 2; Length 13; Best Local Similarity 42.9%; Pred. No. 1.9e+03; Matches 3; Conservative 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 45, Application US/09574749B Patent No. 6548299
                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence FEATURE:
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APPLICATION NUMBER: 07/925,460
FILING DATE: 11-AUG-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 EEYVKAV 13
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                                                                                                                                                                                                        4; Conservative
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80.0%; Pred. No. 1.9e+03;
tive 1; Mismatches 0; Indels
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Minimum DB
Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Run on:
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                                                                                                                                                                                                                                                                                                                                                                                                                     Searched:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 June 13, 2006, 03:23:17 ; Search time 181 Seconds (without alignments) 33.270 Million cell updates/sec
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68
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Published_Applications_AA_Main:*

1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep:*
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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# Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	æ	7	o.	ហ	4	w	2	1	Result No.
23	23	23	23	23	23	23	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	26	30	30	30	68	Score
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Li Li	13								13			13							13				13			13	Length DB
4 US-10-469-837-11	US-10-432-422-	4 US-10-275-046-51	4 US-10-056-884-16	US-10-001-934-	4 US-10-146-305-14	3 US-09-759-484-7	6 US-11-171-567-189	US-10-948-707-	US-10-996	US-10-	4 US-10-327-598-569	4 US-10-080-980-18	US-11-153-143A-	6 US-11-152-974A-302	6 US-11-105-268-12	5 US-10-946-647-889	5 US-10-823-810-12	US-10-930-300-	US-10-930-300-	5 US-10-930-300-101	US-10-823-253-	US-10-280-139-	US-11-105-	US-10-823-810-	US-10-823-253-	4 US-10-612-162-4	BID
Sequence 11, Appl	0	e 51,	e 16,	Sequence 7, Appli	e 14	Sequence 7, Appli	e 18	78		e 494,	569,	e 18, /		302,	Sequence 12, Appl	е 889,	e 12,	Sequence 113, App	108,	e 101,	e 12,	e 11,	Sequence 3, Appli	ω -	е 3,	quence 4,	Description

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33.8									•						33.8		
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US-10-716-189-8	US-10-948-707-1360	US-10-948-707-911	US-10-948-707-745	US-10-958-216-716	US-10-296-313-1	US-10-470-048B-603	US-10-930-300-112	US-10-930-300-109	US-10-930-300-107	US-10-930-300-105	US-10-930-300-102	US-10-930-300-100	US-10-930-300-98	US-10-834-666-44	US-10-469-837-14	US-10-469-837-13	CO FO SOUTH
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	00000000
8, Appli	1360, Ap	911, App		716, App	1, Appli	603, App	112, App	109, App	107, App	105, App	102, App	100, App	98, Appl	44, Appl	14, Appl	13, Appl	40.

## ALIGNMENTS

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Sequence 3, Application US/10823253

Publication No. US20050002934A1

GENERAL INFORMATION:

APPLICANT: Reed, Jennifer

TITLE OF INVENTION: RECOMBINANT IL-9 ANTIBODIES AND USES THEREOF

FILE REFERENCE: 10271-112-999

CURRENT APPLICATION NUMBER: US/10/823,253

CURRENT FILING DATE: 2004-04-12

PRIOR APPLICATION NUMBER: 60/462,259

PRIOR FILING DATE: 2003-04-11

PRIOR FILING DATE: 2003-04-10

PRIOR FILING DATE: 2003-06-10

NUMBER OF SEQ ID NOS: 60

SOFTWARE: Patentin version 3.2

SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LENGTH: 13
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-612-162-4
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US-10-612-162-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 10230550.1
PRIOR FILING DATE: 2002-07-05
PRIOR APPLICATION NUMBER: 03011334.4
PRIOR FILING DATE: 2003-05-19
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4, Application US/10612162
Publication No. US20040014145A1
GENERAL INFORMATION:
APPLICANT: Dade Behring Marburg GmbH
TITLE OF INVENTION: Carbohydrate deficient transferrin (CDT)-specific TITLE OF INVENTION: antibodies, their preparation and use FILE REFERENCE: 2002/B01
CURRENT APPLICATION NUMBER: US/10/612,162
CURRENT FILING DATE: 2003-07-03
CURRENT FILING DATE: 2003-07-03
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Best Local (
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LENGTH: 13
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13; Conserv
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100.0%; Pred. No. 0.0002;
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CURRENT APPLICATION NUMBER: US/10/823,810
CURRENT FILING DATE: 2004-04-12
PRIOR APPLICATION NUMBER: 60/462,307
PRIOR FILING DATE: 2003-04-11
PRIOR APPLICATION NUMBER: 60/477,801
PRIOR FILING DATE: 2003-06-10
NUMBER OF SEQ ID NOS: 63
SOFTWARE: Patentin version 3.2
SEGID NO 3
LENGTH: 13
TYPE: PRT
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US-10-823-810-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-105-268-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 4
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Best Local Similarity
Warches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Homo sapiens US-10-823-810-3
                                                                                                                                       US-11-105-268-3
                                                                                                                                                                                                   CURRENT APPLICATION (NUMBER: US/11/105,268 CURRENT FILING DATE: 2005-04-12 PRIOR APPLICATION (NUMBER: 60/561,845 PRIOR FILING DATE: 2004-04-12 NUMBER OF SEQ ID NOS: 60 SOFTWARE: Patentin version 3.2 SEQ ID NO 3.2
                                                                                                                                                                                                                                                                                                                         Sequence 3, Application US/11105268
Publication No. US20050260204A1
GENERAL INFORMATION:
APPLICANT: Allan, Christian
TITLE OF INVENTION: ANTI-IL-9 ANTIBODY FORMULATIONS
FILE REFERENCE: 10271-126-999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3, Application US/10823810 Publication No. US20050147607A1 GENERAL INFORMATION:
                                                                Query Match 44.1%;
Best Local Similarity 62.5%;
Matches 5; Conservative
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Best Local :
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TITLE OF INVENTION: METHODS OF PREVENTING OR TREATING RESPIRATORY CONDITIONS
FILE REFERENCE: 10271-113-999
                                                                                                                                                    TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                        LENGTH: 13
                                 4 YLGEEYVK 11
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Similarity 62.5%;
5; Conservative
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 YYGSDYVK 10
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62.58;
                                                                Score 30; DB 6;
Pred. No. 3.8e+02;
1; Mismatches 2
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Pred. No. 3.8e+02;
1; Mismatches 2;
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Pred. No. 3.8e+02;
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; ORGANISM: Homo sapiens
US-10-823-253-12
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Best Local S
Matches 4
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CURRENT FILING DATE: 202-10-23
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 12, Applica
Publication No. US20
GENERAL INFORMATION:
                                                                                                        Sequence 101, Application US/10930300
Publication No. US20050014138A1
GENERAL INFORMATION:
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SEQ ID NO 12
LENGTH: 13
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publication No. US20040081963A1
GENERAL INFORMATION:
APPLICANT: Wang, Yan
APPLICANT: MJ Bioworks Incorporated
TITLE OF INVENTION: Improved Sso7-Polymerase Conjugate Proteins
FILE REFERENCE: 020130-001200US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 60/477,797
PRIOR FILING DATE: 2003-06-10
NUMBER OF SEQ ID NOS: 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Reed, Jennifer
TITLE OF INVENTION: RECOMBINANT IL-9 ANTIBODIES AND USES THEREOF
FILE REFERENCE: 10271-112-999
CURRENT APPLICATION NUMBER: US/10/823,253
CURRENT FILING DATE: 2004-04-12
PRIOR APPLICATION NUMBER: 60/462,259
PRIOR FILING DATE: 2003-04-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 13
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Description of Artificial Sequence:Seo7d OTHER INFORMATION: alignment consensus peptide
                                 NUMBER OF SEQUENCES:
                                                                      APPLICANT: Rath, Matthias
TITLE OF INVENTION: METHOD OF PRODUCING VACCINES FROM PROTEIN SIGNAL
                                                                                                                                                                                                                                                                                                                    Similarity
4; Conserve
                                                                                                                                                                                                                                                                                 4 YLGEEYVK 11
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INHOUSE IP MANAGEMENT
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                                                       OLIGOPEPTIDES
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Pred. No. 2.6e+03;
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Pred. No. 1.8e+03
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STREET: 280 Colorado Avenue

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RESULT 8
US-10-930-300-108
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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy Disk, 3.50 inch, 1.44MB Storage

MEDIUM TYPE: Floppy Disk, 3.50 inch, 1.44MB Storage

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: WINDOWS 95

SOFTWARE: MS WORD 6.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/930,300

FILING DATE: 30-Aug-2004

CLASSIFICATION STORAGE

CLASSIFICATION ONTA:

APPLICATION NUMBER: 08/182,248

APPLICATION NUMBER: 14-JAN-1994

ATTORNEY/AGENT INFORMATION:

NAME: ALI KAMAREI

NAME: ALI KAMAREI

REGISTRATION NUMBER: 37000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/182,248

FILING DATE: 14-JAN-1994

ATTORNEY/AGENT INFORMATION:

NAME: ALI KAMAREI

REGISTRATION NUMBER: 37000

REFERENCE/DOCKET NUMBER: 10262-11

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION 1NFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Match 36.8%;
Local Similarity 45.5%;
es 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 360
CORRESPONDENCE ADDRESS:
ADDRESSEE: INHOUSE IP MANAGEMENT
STREET: 280 Colorado Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 101:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Rath, Matthias
TITLE OF INVENTION: METHOD OF PRODUCING VACCINES FROM PROTEIN SIGNAL
OLIGOPEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: WINDOWS 95 SOFTWARE: MS WORD 6.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: Disk, 3.50 inch, 1.44MB Storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             YEKYLGEEYVK 11
                                                                                                                                                                                                                                                                                                                                                                                     CITY: Palo Alto
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/10/930,300 FILING DATE: 30-Aug-2004 CLASSIFICATION: CUNKNOWN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Palo Alto
STATE: California
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
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Pred. No. 2.6e+03;
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US-10-930-300-113
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                                                          Matches
                                                                          Best Local Similarity
                                                                                     Query Match
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APPLICANT: Rath, Matthias
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INFORMATION FOR SEQ ID NO: 113:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                     36.8%;
Local Similarity 45.5%;
es 5; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: MS WORD 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/930,300
FILING DATE: 30-Aug-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: F10ppy Disk, 3.50 inch, 1.44MB Storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE DESCRIPTION: SEQ ID NO: 108:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 10262-1US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-322-7371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: METHOD OF PRODUCING VACCINES FROM PROTEIN SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N
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                            YEKYLGEEYVK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 280 Colorado Avenue
CITY: Palo Alto
STATE: California
YSKYLDNRRTK 12
                                                                                                                                                 STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                               TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: <Unknown>
                                                                                                                                                                                               LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: INHOUSE IP MANAGEMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 650-322-7389
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                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9430
                                                                        36.8%;
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                                                        Score 25; DB 5;
Pred. No. 2.6e+03;
0; Mismatches 6
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Pred. No. 2.
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                                                                                      Length 13
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Sequence 12, Application US/10823810

Publication No. US20050147607A1

GENERAL INFORMATION:
APPLICANT: Reed, Jennifer

TITLE OF INVENTION: METHODS OF PREVENTING OR TREATING RESPIRATORY CONDITIONS
FILE REFERENCE: 10271-113-999
CURRENT APPLICATION NUMBER: US/10/823,810
CURRENT FILING DATE: 2004-04-12
PRIOR APPLICATION NUMBER: 60/462,307
PRIOR RILING DATE: 2003-04-11
PRIOR FILING DATE: 2003-04-11
PRIOR FILING DATE: 2003-06-10
NUMBER: OF SEQ ID NOS: 63
SOFTWARE: Patentin version 3.2
SEQ ID NO 12
                                                                                                                                             US-11-105-268-12
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                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Escherichia coli
US-10-946-647-889
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Publication No. US20050186217A1
GENERAL INFORMATION:
APPLICANT: EMERY, DARYLL A.
APPLICANT: STRAUB, DARREN E.
APPLICANT: WONDERLING, LAURA
TITLE OF INVENTION: COMPOSITIONS PRODUCED USING ENTERIC PATHOGENS AND METHODS OF USE
FILE REFERENCE: 293.00340101
CURRENT APPLICATION NUMBER: US/10/946,647
CURRENT FILING DATE: 2004-09-20
PRIOR APPLICATION NUMBER: 60/504,119
PRIOR APPLICATION NUMBER: 60/504,119
PRIOR FILING DATE: 2003-09-19
NUMBER OF SEQ ID NOS: 1448
SOFTWARE: PATENTIN Version 3.3
SEQ ID NO 889
LENGTH: 13
TYPE: PRT
Sequence 12, Application US/11105268
Publication W. US20050260204A1
GENERAL, INFORMATION:
APPLICANT: Allan, Christian
TITLE OF INVENTION: ANTI-IL-9 ANTIBODY FORMULATIONS AND USES THEREOF
FILE REFERENCE: 10271-126-999
CURRENT APPLICATION NUMBER: US/11/105,268
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Best Local
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TYPE: PRT
ORGANISM: Homo sapiens
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168 4; Conservarion
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Pred. No. 2.6e+03;
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Sequence 302, Application US/11153143A
Publication No. US20060051396A1
GENERAL INFORMATION:
APPLICANT: Paul T. Hamilton
APPLICANT: Mark W. Grinstaff
APPLICANT: Daniel J. Kenan
APPLICANT: Dale J. Christensen
TITLE OF INVENTION: Biofunctional Coatings
FILE REFERENCE: AFF005
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PRIOR FILING DATE: 2004-04-12
NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin version 3.2
SEQ ID NO 12
LENGTH: 13
TYPE: PRT
TYPE: PRT
ORGANISM: Homo sapiens
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US-11-152-974A-302
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Best Local Similarity
Watches 4; Conserve
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Wayne F. Beyer, Jr.
APPLICANT: Wayne F. Beyer, Jr.
APPLICANT: Robin Hyde-DeRuyscher
APPLICANT: Robin Hyde-DeRuyscher
APPLICANT: Paul T. Hamilton
APPLICANT: Ray Edward Benson
TITLE OF INVENTION: IFMBs to Promote the Specific Attachment of Target Analytes to the
TITLE OF INVENTION: of Orthopedic Implants
FILE REFERENCE: AFFO06
CURRENT APPLICATION NUMBER: US/11/152,974A
CURRENT APPLICATION NUMBER: 60/580,019
PRIOR APPLICATION NUMBER: 60/551,338
PRIOR APPLICATION NUMBER: 60/651,338
PRIOR FILING DATE: 2005-06-19
PRIOR FILING DATE: 2005-06-19
PRIOR FILING DATE: 2005-06-19
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SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 302
LENGTH: 13
TYPE: PRT
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Best Local Similarity
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                    CURRENT APPLICATION NUMBER: US/11/153,143A CURRENT FILING DATE: 2005-06-15
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PRIOR APPLICATION NUMBER: 60/580,019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: isolated from phage display libraries
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Pred. No. 2.6e+03;
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Pred. No. 2.6e+03
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Sequence 18, Application US/10080980

Sequence 18, Application US/10080980

Publication No. US20030036115A1

GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU
TITLE OF INVENTION: K+betaM6, EXPRESSED HIGHLY IN THE SMALL INTESTINE
FILE REFERENCE: D0121 NP
CURRENT APPLICATION NUMBER: US/10/080,980

CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US 60/270,132
PRIOR APPLICATION NUMBER: US 60/270,132
PRIOR APPLICATION NUMBER: US 60/270,953
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 74
SOFTWARE: Patentin version 3.0
SEQ ID NO 18
LENGTH: 13
TYPE: PRT
ORGANISM: homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 2004-06-16
PRIOR APPLICATION NUMBER: 60/651,338
PRIOR FILING DATE: 2005-02-09
PRIOR APPLICATION NUMBER: 60/651,747
PRIOR FILING DATE: 2005-02-10
NUMBER OF SEQ ID NOS: 558
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 302
LENGTH: 13
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
Search completed: June 13, 2006, 03:29:35 Job time : 182 secs
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US-10-080-980-18
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US-11-153-143A-302
                                                                                                                                                                         Query Match 35.3%;
Best Local Similarity 40.0%;
Matches 4; Conservative
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Best Local S
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ERYTSRYYLK 12
                                                                                                                             EKYLGEEYVK 11
                                                                                                                                                                       Score 24; DB 4; Length 13; Pred. No. 3.8e+03; 2; Mismatches 4; Indels
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Result
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Maximum DB seq
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Maximum Match 100%
Listing first 45 summaries
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and is der
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s derived by a
    protein search, using
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1. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US09_NEW_PUB.pep:*

2. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

3. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

4. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US08_NEW_PUB.pep:*

5. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

6. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

7. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

8. /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
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4.442 Million cell updates/sec
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68
1 YEKYLGEEYVKAV :
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  YEKYLGEEYVKAV 13
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                     US-10-497-088-5
US-11-259-950-33
US-11-254-509A-132
US-10-538-066-41
US-10-538-066-41
US-10-614-959-13
US-11-264-509A-94
US-11-313-356-20
US-10-538-066-32
US-10-538-066-32
US-10-538-066-32
US-11-264-509A-138
US-11-264-509A-138
US-11-264-509A-138
US-11-264-509A-138
US-11-264-509A-138
US-11-264-509A-138
US-11-254-509A-138
US-11-254-509A-138
US-11-257-498-46
US-11-538-066-39
US-11-538-072-5006
US-11-054-072-5006
US-11-054-072-5006
US-11-054-072-5006
US-11-054-072-5006
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Biocceleration Ltd.
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5, Appli
33, Appl
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35, Appl
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128, Appl
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Query Match Best Local Matches Qy 3	RESULT 1 US-10-497-088 Sequence 5, Publication GENERAL INF APPLICANT: FIITLE OF I FIITLE OF I FIITLE OF I FILE REFER CURRENT APPL PRIOR FILI PRIOR APPL PRIOR FILI PRIOR FILI PRIOR FILI PRIOR FILI PRIOR FILI PRIOR FILI FRIOR APPL PRIOR FILI FRIOR FILI FR	444433333332222 544443333333322 54321088
Match 32.4%; Score 22; DB 6; L Local Similarity 50.0%; Pred. No. 2.9e+02; les 5; Conservative 0; Mismatches 5; 3 KYLGEEYVKA 12 	SULT 1 10-1497-08-5 Sequence 5, Application US/10497088 Sequence 5, Application No. US20060088520A1 GENERAL INFORMATION: APPLICANT: Crucell Holland B.V. APPLICANT: Crucell Holland B.V. APPLICANT: Lekterkery, Ton APPLICANT: Lekterkery, Ton TITLE OF INVENTION: presenting cell targetin TITLE OF INVENTION: presenting cell targetin TITLE OF INVENTION: presenting cell targetin TITLE OF INVENTION: generation TITLE OF INVENTION: generation TITLE REFERENCE: 0070 US 00 CON CURRENT FILING DATE: 2004-05-28 PRIOR APPLICATION NUMBER: US/10/497,088 CURRENT FILING DATE: 2001-11-30 PRIOR APPLICATION NUMBER: PCT/EP02/13681 PRIOR SEQ ID NOS: 21 SOFTWARE: PatentIn version 3.2 SOFTWARE: PatentIn version 3.2 SOFTWARE: PatentIn version 3.2 SOFTWARE: Artificial Sequence PEATURE: OTHER INFORMATION: MAGE-1.DR13 specific peptide -10-497-088-5	16 23.5 13 7 US-11-054-072-5010 16 23.5 13 7 US-11-054-072-5011 16 23.5 13 7 US-11-054-072-5012 16 23.5 13 7 US-11-054-072-5013 16 23.5 13 7 US-11-054-072-5014 16 23.5 13 7 US-11-054-072-5014 16 23.5 13 7 US-11-054-072-5016 16 23.5 13 7 US-11-054-072-5019 16 23.5 13 7 US-11-054-072-5019 16 23.5 13 7 US-11-054-072-5021 16 23.5 13 7 US-11-054-072-5021 16 23.5 13 7 US-11-054-072-5021 16 23.5 13 7 US-11-054-072-5022 16 23.5 13 7 US-11-054-072-5024 16 23.5 13 7 US-11-054-072-5024 16 23.5 13 7 US-11-054-072-5024 16 23.5 13 7 US-11-054-072-5025 16 23.5 13 7 US-11-054-072-5025 16 23.5 13 7 US-11-054-072-5026 17 US-11-054-072-5026 18 23.5 13 7 US-11-054-072-5026 19 23.5 13 7 US-11-054-072-5026 19 23.5 13 7 US-11-054-072-5026 19 23.5 13 7 US-11-054-072-5026
Length 13; ; 5; Indels 0; Gaps 0;	eting conjugate, an antigen ith such conjugate, their use for t, and methods for their production	Sequence 5010, Ap Sequence 5011, Ap Sequence 5012, Ap Sequence 5013, Ap Sequence 5014, Ap Sequence 5014, Ap Sequence 5015, Ap Sequence 5017, Ap Sequence 5017, Ap Sequence 5020, Ap Sequence 5021, Ap Sequence 5023, Ap Sequence 5024, Ap Sequence 5026, Ap Sequence 5026, Ap Sequence 5027, Ap

0

US-11-259-950-33
; Sequence 33, Application US/11259950
; Publication No. US20060088524A1
; GENERAL INFORMATION:
; APPLICANT: MOTTISSEY, James
; APPLICANT: Pureza, Vincent

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US-10-538-066-38
; Sequence 38, Application US/10538066
; Publication No. US20060094649A1
                                                              RESULT 4
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US-11-264-509A-132
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PRIOR FILING DATE: 2004-01-13
PRIOR APPLICATION NUMBER: US 10/465,789
PRIOR FILING DATE: 2003-06-18
PRIOR APPLICATION NUMBER: US 09/990,087
PRIOR APPLICATION NUMBER: US 09/990,087
PRIOR FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: US 60/252,233
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 11/033,489
PRIOR APPLICATION NUMBER: US 11/033,489
PRIOR FILING DATE: 2005-01-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 132, Application US/11264509A Publication No. US20060100148A1 GENERAL INFORMATION:
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NUMBER OF SEQ ID NOS: 141
SOFTWARE: PatentIn version 3.3
SEQ ID NO 132
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SEQ ID NO 33
LENGTH: 13
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Best Local :
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Best Local (
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APPLICANT: Zhang, Rumin
APPLICANT: Kong, Rumin
APPLICANT: Kong, Romin
TITLE OF INVENTION: PEPTIDE VIRAL ENTRY PEPTIDES
FILE REFERENCE: J806227US01
CURRENT APPLICATION NUMBER: US/11/264,509A
CURRENT FILING DATE: 2005-11-01
PRIOR APPLICATION NUMBER: 60/624,204
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CURRENT FILING DATE: 2005-10-27
PRIOR APPLICATION NUMBER: US 60/622,737
PRIOR FILING DATE: 2004-10-27
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                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
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Local Similarity 80.0%;
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100.0%; Pred. No. 4.3e+
tive 0; Mismatches
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Pred. No. 2.9e+02;
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US-11-038-754-18
Sequence 18, Application US/11038754
Publication No. US20060115855A1
GENERAL INFORMATION:
APPLICANT: Goldknopf, Ira L.
APPLICANT: Sheta, Essam A.
APPLICANT: Sheta, Essam A.
APPLICANT: Simpson, Ericka P.
APPLICANT: Simpson, Ericka P.
APPLICANT: Yen, Albert A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 41, Application US/10538066
Publication No. US20060094649A1
GENERAL INFORMATION:
APPLICANT: Epinmune Inc.
TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and TITLE OF INVENTION: HAP-LIdes and Compositions FILE REPERENCE: 2060.015PC06
CURRENT APPLICATION NUMBER: US/10/538,066
CURRENT APPLICATION NUMBER: US/60/432,017
PRIOR APPLICATION WINDER: 060/432,017
PRIOR FILING DATE: 2002-12-10
NUMBER OF SEQ ID NOS: 767
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US-10-538-066-41
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 38
LENGTH: 13
TYPE: PRT
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IITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and -B44 Tumor Associated Antigen

TITLE OF INVENTION: Peptides and Compositions

FILE REFERENCE: 2060.015PC06

CURRENT APPLICATION NUMBER: US/10/538,066

CURRENT FILING DATE: 2005-06-09

PRIOR APPLICATION NUMBER: US 60/432,017

PRIOR FILING DATE: 2002-12-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 13
TYPE: PRT
ORGANISM: Unknown
FEATURE:
TITLE OF INVENTION: AN FK506-BINDING PROTEIN 7 RELATED PROTEIN AS A BIOMARKER FOR TITLE OF INVENTION: NEURODEGENERATIVE DISEASE FILE REFERENCE: PROT-P0012US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: PADRE Peptide
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Pred. No. (
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Pred. No. 6.3e+02;
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Sequence 94, Application US/11264509A
PUBLICATION NO. US20060100148A1
GENERAL INFORMATION:
APPLICANT: Liu, Rong
APPLICANT: Chang, Rumin
APPLICANT: Kong, Rong
TITLE OF INVENTION: PEPTIDE VIRAL ENTRY PEPTIDES
FILE REFERENCE: JB66227US01
CURRENT APPLICATION NUMBER: US/11/264,509A
CURRENT FILING DATE: 2005-11-01
PRIOR APPLICATION NUMBER: 60/624,204
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; Sequence 13, Applica
; Publication No. US20
; GENERAL INFORMATION:
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US-11-264-509A-94
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-038-754-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Homo sapiens
US-10-614-959-13
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PRIOR FILING DATE: 2004-12-01
NUMBER OF SEQ ID NOS: 21
SOFTWARE: PATENTIN VERSION 3.3
SEQ ID NO 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Adams, Camelia W.
APPLICANT: Devaux, Brigitte
APPLICANT: Eaton, Dan L.
APPLICANT: Hass, Philip E.
APPLICANT: Judice, J. Kevin
APPLICANT: Kirchhofer, Daniel
APPLICANT: Suggett, Shelley
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Best Local Similarity 50.0%;
Matches 4; Conservative
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PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/383,667

PRIOR FILING DATE: EARLIER FILING DATE: 1999-08-26

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/098,233

PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-28

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/122,767

PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-03

NUMBER OF SEQ ID NOS: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Kirchhofer, Daniel
APPLICANT: Suggett, Shelley
TITLE OF INVENTION: Human Anti-Factor IX/IXa Antibodies
FILE REFERENCE: P1661R2
CURRENT APPLICATION NUMBER: US/10/614,959
CURRENT FILING DATE: 2003-07-08
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CURRENT FILING DATE: 2005-01-19
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Local Similarity 50.0%;
hes 3; Conservative
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Pred. No. 9.2e+02;
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Pred. No. 6.3e+02;
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APPLICANT: Epimmune Inc.
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7,
TITLE OF INVENTION: Peptides and Compositions
FILE REFERENCE: 2060.015PC06
CURRENT APPLICATION NUMBER: US/10/538,066
CURRENT FILING DATE: 2005-06-09
PRIOR APPLICATION NUMBER: US 60/432,017
PRIOR APPLICATION NUMBER: US 60/432,017
PRIOR FILING DATE: 2002-12-10
NUMBER OF SEQ ID NOS: 767
SOFTWARE: Patentin version 3.2
SEQ ID NO 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Wu, Shujian
APPLICANT: Chen, Jian
APPLICANT: Feder, John
APPLICANT: Lee, Liana
APPLICANT: Lee, Liana
APPLICANT: Lee, Liana
APPLICANT: Krystek, Stanley
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A I
TITLE OF INVENTION: IN THE TESTIS, MMP-29
FILE REFERENCE: DO141DIV
CURRENT APPLICATION NUMBER: US/11/313,356
CURRENT FILING DATE: 2005-12-21
PRIOR APPLICATION NUMBER: US 60/286,764
PRIOR FILING DATE: 2001-04-26
NUMBER OF SEQ ID NOS: 80
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US-11-313-356-20
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                                                                                                                                                                                                                                                                       Sequence 35, Application US/10538066 Publication No. US20060094649A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn version 3.2 SEQ ID NO 20
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SOFTWARE: PatentIn version 3.3
SEQ ID NO 94
                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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Best Local :
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TYPE: PRT
TYPE: PRT
ORGANISM: Unknown
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                                     LENGTH:
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Pred. No. 9.
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Pred. No. 9.
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9.2e+02;
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FEATURE:

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FILE REFERENCE: 2060.015PC06
CURRENT APPLICATION NUMBER: US/10/538,066
CURRENT FILING DATE: 2005-06-09
PRIOR APPLICATION NUMBER: US 60/432,017
PRIOR FILING DATE: 2002-12-10
NUMBER OF SEQ ID NOS: 767
SOFTWARE: PatentIn version 3.2
LENGTH: 13
Type: -----
В
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US-10-538-066-32
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                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 12
US-10-538-066-651
                                                                                                                                  ; ORGANISM: Homo sapiens
US-10-538-066-651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ) OTHER INFORMATION: PADRE Peptide US-10-538-066-32
                                                                                                                                                                                                                                                                                                                                                                           Sequence 651, Application US/10538066 Publication No. US20060094649A1 GENERAL INFORMATION:
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APPLICANT: Epimmune Inc.
                                                                   Matches
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SEQ ID NO 651
LENGTH: 13
TYPE: PRT
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Best Local Similarity
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Best Local (
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APPLICANT: Epimmune Inc.
TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and
TITLE OF INVENTION: Peptides and Compositions
FILE REFERENCE: 2060.0159C06
CURRENT APPLICATION NUMBER: US/10/538,066
CURRENT FILING DATE: 2005-06-09
PRIOR APPLICATION NUMBER: US 60/432,017
PRIOR APPLICATION NUMBER: US 60/432,017
NUMBER OF SEQ ID NOS: 767
NUMBER OF SEQ ID NOS: 767
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TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and -B44 Tumor Associated Antigen
TITLE OF INVENTION: Peptides and Compositions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Unknown
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                                                                  Score 17; DB 6;
Pred. No. 2e+03;
2; Mismatches
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Pred. No. 2e+03;
2; Mismatches
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Pred. No. 1.4e+03;
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FILE REFERENCE: JB06227US01
CURRENT APPLICATION NUMBER: US/11/264,509A
CURRENT FILING DATE: 2005-11-01
PRIOR APPLICATION NUMBER: 60/624,204
PRIOR FILING DATE: 2004-11-02
NUMBER OF SEQ ID NOS: 141
SOFTWARE: Patentin version 3.3
SEQ ID NO 138
LENGTH: 13
RESULT 15
US-11-261-429-21
; Sequence 21, Application US/11261429
; Publication No. US20060115899A1
; GENERAL INFORMATION:
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Best Local Similarity
Thes 3; Conserve
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US-11-264-509A-128
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CURRENT FILING DATE: 2005-11-01
PRIOR APPLICATION NUMBER: 60/624,204
PRIOR FILING DATE: 2004-11-02
NUMBER OF SEQ ID NOS: 141
SOFTWARE: Patentin version 3.3
SEQ ID NO 128
LENGTH: 13
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Matches 3; Conserv
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APPLICANT: Zhang, Rumin
APPLICANT: Kong, Rong
TITLE OF INVENTION: PEPTIDE VIRAL ENTRY PEPTIDES
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APPLICANT: Kong, Rong
TITLE OF INVENTION: PEPTIDE VIRAL ENTRY PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                           OTHER INFORMATION: HCV peptide
                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
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75.0%;
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Pred. No. 2e+03;
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Pred. No. 2e+03;
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APPLICANT: Walker, Mindi R.
TITLE OF INVENTION: METHODS OF GENERATING ANTIGEN-SPECIFIC CD4+CD25+ REGULATORY T
TITLE OF INVENTION: CELLS, COMPOSITIONS AND METHODS OF USE

PILE REFERENCE: BRIVM-1-26413
CURRENT APPLICATION NUMBER: US/11/261,429
CURRENT APPLICATION NUMBER: US/60/623,380
PRIOR APPLICATION NUMBER: US 60/623,380
PRIOR PILING DATE: 2004-10-29
CUMMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.2
SOFTWARE: Patentin vers
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